



14421 County Rd. 10 • Ft. Lupton, Colorado 80621 • (303) 857-9999 • FAX (303) 857-0577 • E-MAIL Permitco 1@aol.com

December 13, 2006

Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, UT 84114-5801
Attn: Minerals

Re: Gasco Production Company
Wilkin Ridge Federal #41-21-10-17
478' FNL and 813' FEL
NE NE Section 21, T10S - R17E
Duchesne County, Utah

Gentlemen:

Enclosed please find one copy of the Application for Permit to Drill, along with one copy of the Onshore Order No. 1 which was filed with the BLM in Vernal, Utah.

If you should need additional information, please don't hesitate to contact me. Approved copies of the A.P.D. should be sent to Permitco Inc. at the address shown above.

Sincerely,

PERMITCO INC.

Tabatha Parker

Tabatha Parker
Consultant for
Gasco Production Company

Enc.

cc: Gasco Production Company - Englewood, CO
Shawn Elworthy - Roosevelt, UT

RECEIVED

DEC 26 2006

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐
(highlight changes)

APPLICATION FOR PERMIT TO DRILL		5. MINERAL LEASE NO.: UTU-75083	6. SURFACE: BLM
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		8. UNIT or CA AGREEMENT NAME: Wilkin Ridge	
2. NAME OF OPERATOR: Gasco Production Company		9. WELL NAME and NUMBER: Wilkin Ridge Federal #41-21-10-17	
3. ADDRESS OF OPERATOR: 8 Inverness Drive East, Suite 100, Englewood, CO 80112		10. FIELD AND POOL, OR WILDCAT: Wilkin Ridge Undesignated	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 585076x 4420847y 39.935354 AT PROPOSED PRODUCING ZONE: 478' FNL and 813' FEL NE NE - 110.004292		11. QTR/QTR, SECTION, TOWNSHIP, RANGE MERIDIAN: Sec. 21, T10S-R17E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: Approximately 22 miles southeast of Myton, UT.		12. COUNTY: Duchesne	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 478'	16. NUMBER OF ACRES IN LEASE: 1917.68	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40 Acres; NE NE	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET): None	19. PROPOSED DEPTH: 13,025'	20. BOND DESCRIPTION: Bond No. UT-1233	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5805' GL	22. APPROXIMATE DATE WORK WILL START: ASAP	23. ESTIMATED DURATION: 35 Days	

24. PROPOSED CASING AND CEMENTING PROGRAM			
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
17-1/2"	13-3/8", H-40, 48#	200'	200 sx Premium Type 5, 15.6 ppg, 1.18 yield
12-1/4"	8-5/8", J-55, 32#	3,625'	611 sx Hi-Lift, 11 ppg, 3.91 yield + 185 sx 10-2 RFC, 14.2 ppg, 1.63 yield
7-7/8"	4-1/2", P-110, 13.5#	13,025'	523 sx Hi-Lift, 11.5 ppg, 3.05 yield & 1338 sx 50/50 Poz, 14.1 ppg, 1.28 yield

25. ATTACHMENTS	
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:	
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PROGRAM
<input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

AGENT: PermitCo Inc.		AGENT'S PHONE NO.: 303-857-9999	
NAME (PLEASE PRINT) Tabatha Parker		TITLE Agent for Gasco Production Company	
SIGNATURE Tabatha Parker		DATE December 13, 2006	

(This space for State use only)

API NUMBER ASSIGNED: **43-013-33474**

Approved by the
Utah Division of
Oil, Gas and Mining

RECEIVED
DEC 26 2006

(11/2001)

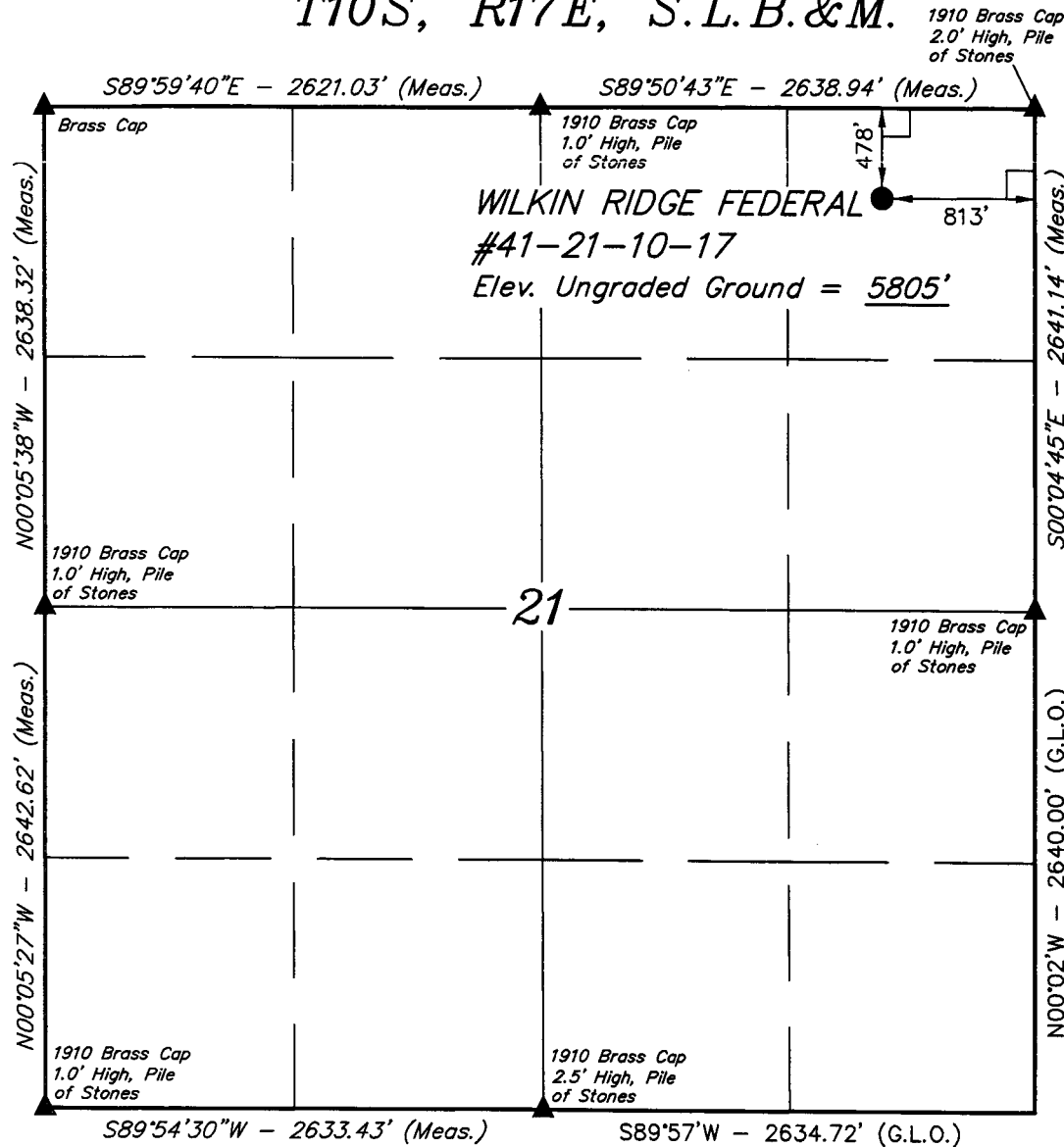
Federal Approval of this
Action Is Necessary

Date: **12/23/06**
By: **[Signature]**

DIV. OF OIL, GAS & MINING

T10S, R17E, S.L.B.&M.

1910 Brass Cap
2.0' High, Pile
of Stones



BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

LEGEND:

- └─ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

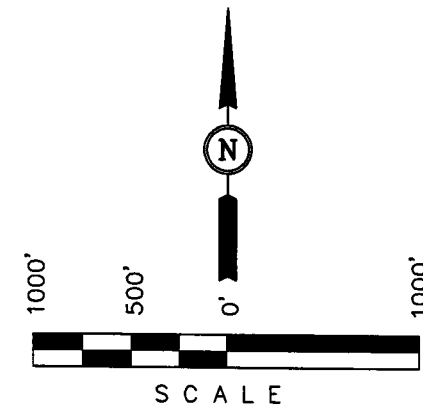
(AUTONOMOUS NAD 83)
LATITUDE = 39°56'07.42" (39.935394)
LONGITUDE = 110°00'18.05" (110.005014)
(AUTONOMOUS NAD 27)
LATITUDE = 39°56'07.55" (39.935431)
LONGITUDE = 110°00'15.51" (110.004308)

GASCO PRODUCTION COMPANY

Well location, WILKIN RIDGE FEDERAL
#41-21-10-17, located as shown in the NE 1/4
NE 1/4 of Section 21, T10S, R17E, S.L.B.&M.
Duchesne County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION LOCATED IN THE SW 1/4 OF SECTION 20,
T10S, R17E, S.L.B.&M. TAKEN FROM THE WILKIN RIDGE,
QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD.
(TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES
DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID
ELEVATION IS MARKED AS BEING 6275 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF

Robert H. King
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 01-20-06	DATE DRAWN: 01-26-06
PARTY J.W. J.K. L.K.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE GASCO PRODUCTION COMPANY	

APPLICATION FOR PERMIT TO DRILL OR REENTER

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

Attached.

2. A Drilling Plan

Attached.

3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the Appropriate Forest Service Office.

See Surface Use Plan Attached.

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20).

Bond coverage for this well is provided by Gasco Production Company under their BLM Bond No. Bond No. UT-1233.

5. Operator certification.

Please be advised that Gasco Production Company is considered to be the operator of the above mentioned well.

Gasco Production Company agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the leased lands.

6. Such other site specific information and/or plans as may be required by the authorized officer.

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal and Indian Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS**

<i>Formation</i>	<i>Depth</i>	<i>Subsea</i>
Wasatch	5,075'	+760'
Mesaverde	9,185'	-3,350'
Castlegate	11,835'	-6,000'
Blackhawk	12,095'	-6,260'
Aberdeen	12,725'	-6,890'
T.D.	13,025'	-7,190'

2. **ESTIMATED DEPTH OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:**

<i>Substance</i>	<i>Formation</i>	<i>Depth</i>
Gas	Wasatch	5,500' - 9,185'
Gas	Mesaverde	9,185' - 11,835'
Gas	Blackhawk	12,095' - 12,925'

All fresh water prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.



3. PRESSURE CONTROL EQUIPMENT

Gasco Production Company's minimum specifications for pressure control equipment are as follows:

Ram Type: 11" Hydraulic double with annular, 5000 psi w.p.

Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Annular type preventers (if used) shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

- a. when initially installed;
- b. whenever any seal subject to test pressure is broken
- c. following related repairs; and
- d. at 30-day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) the check valve shall be held open or the ball removed.

Annular preventers shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

A BOPE pit level drill shall be conducted weekly for each drilling crew.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log.



BOP systems shall be consistent with API RP53. Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The District Office should be notified, with sufficient lead time, in order to have the BLM representative on location during pressure testing.

- a. The size and rating of the BOP stack is shown on the attached diagram. Although a rig has not been chosen to drill this well, most of the equipment for this depth of hole in the area use a 11", 5000 psi working pressure blowout preventor.
- b. A choke line and a kill line are to be properly installed. The kill line is not to be used as a fill-up line.
- c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.
- d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.

4. PROPOSED CASING AND CEMENTING PROGRAM:

- a. The proposed casing and cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. Determination of casing setting depth shall be based on all relevant factors, including; presence/absence of hydrocarbons; fracture gradients; usable water zones; formation pressures; lost circulation zones; other minerals; or other unusual characteristics. All indications of usable water shall be reported.
- b. Casing design shall assume formation pressure gradients of 0.44 to 0.50 psi per foot for exploratory wells (lacking better data).



- c. Casing design shall assume fracture gradients from 0.70 to 1.00 psi per foot for exploratory wells (lacking better data)
- d. Casing collars shall have a minimum clearance of 0.422 inches of all sides in the hole/casing annulus, with recognition that variances can be granted for justified exceptions.
- e. All waiting on cement times shall be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.
- f. All casing except the conductor casing, shall be new or reconditioned and tested used casing that meets or exceeds API standards for new casing.
- g. The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing.
- h. All indications of usable water shall be reported to the authorized officer prior to running the next string of casing or before plugging orders are requested, whichever occurs first.
- i. Three centralizers will be run on the bottom three joints of surface casing with a minimum of one centralizer per joint starting with the shoe joint.
- j. Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc. shall be utilized to help isolate the cement from contamination by the mud fluid being displaced ahead of the cement slurry.
- k. All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or 1500 psi, whichever is greater, but not to exceed 70 percent of the minimum internal yield. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.
- l. On all exploratory wells, and on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.



m. The proposed casing program will be as follows:

Purpose	Depth	Hole Size	O.D.	Weight	Grade	Type	New/Used
Conductor	0-200'	17-1/2"	13-3/8"	48#	H-40	- - -	New
Surface	0-3,625'	12-1/4"	8-5/8"	32#	J-55	ST&C	New
Production	0-13,025'	7-7/8"	4-1/2"	13.5#	P-110	LT&C	New

n. Casing design subject to revision based on geologic conditions encountered.

o. The cement program will be as follows:

Conductor	Type and Amount
0-200'	200 sx Premium Type 5 mixed @ 15.6 ppg, 1.18 yield
Surface	Type and Amount
TOC @ Surface	Lead: 611 sx Hi-Lift mixed @ 11 ppg, 3.91 yield Tail: 185 sx 10-2 RFC mixed @ 14.2 ppg, 1.63 yield
Production	Type and Amount
TOC @ 2,500'	Lead: 523 sx Hi-Lift mixed @ 11.5 ppg, 3.05 yield Tail: 1338 sx 50:50 Poz @ 14.1 ppg, 1.28 yield

p. Anticipated cement tops will be reported as to depth; not the expected number of sacks of cement to be used. The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

q. After cementing but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the driller's log.

r. The following reports shall be filed with the District Manager within 30 days after the work is completed.



1. Progress reports, Form 3160-5 (formerly 9-331) "Sundry Notices and Reports on Wells", must include complete information concerning:
 - a. Setting of each string of casing, showing the size, grade, weight of casing set, hole size, setting depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of cementing tools used, casing test method and results, and the date work was done. Show the spud date on the first reports submitted.
 - b. Temperature or bond logs must be submitted for each well where the casing cement was not circulated to the surface.
- s. Auxiliary equipment to be used is as follows:
 1. Kelly cock
 2. No bit float is deemed necessary.
 3. A sub with a full opening valve.

5. MUD PROGRAM

- a. The proposed circulating mediums to be employed in drilling are as follows:

<i>Interval</i>	<i>Mud Type</i>	<i>Mud Wt.</i>	<i>Visc.</i>	<i>F/L</i>	<i>pH</i>
0 - 200'	Fresh Water	8.33	1	---	7
200' - 3,625'	Fresh Water	8.33	1	---	7-8
3,625' - TD	Fresh Water/DAP	9.0-11.5	30-40	12-20	8

There will be sufficient mud on location to control a blowout should one occur.
A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, static filtration loss, and Ph.



- b. Mud monitoring equipment to be used is as follows:
 - 1. Periodic checks will be made each tour of the mud system. The mud level will be checked visually.
- c. No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.
- d. No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.
- e. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

6. EVALUATION PROGRAM

The anticipated type and amount of testing, logging and coring are as follows:

- a. No drill stem tests are anticipated, however, if DST's are run, the following requirements will be adhered to:

Initial opening of drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer. However, DST's may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e. lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the authorized officer. Closed chamber DSTs may be accomplished day or night.

A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions. This would involve provided some means for reverse circulation.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

All engines within 100 feet of the wellbore that are required to "run" during the test shall have spark arresters or water cooled exhausts.



- b. The logging program will consist of a Schlumberger Platform Express or equivalent to be run from Base of Surface Casing to TD.
- c. No cores are anticipated.
- d. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 3160-4. Samples (cutting, fluids, and/or gases) will be submitted when requested by the authorized officer (AO).
- e. The anticipated completion program is as follows: Perform multistage fracs and complete all productive Mesaverde and Wasatch sands present in wellbore. Produce all zones commingled.
- f. Daily drilling and completion progress reports shall be submitted to the BLM in Vernal on a weekly basis.

7. ABNORMAL TEMPERATURES OR PRESSURES

- a. The expected bottom hole pressure is 7294 psi. The maximum bottom hole temperature anticipated is 221 degrees F.
- b. No hydrogen sulfide gas is anticipated. Abnormal pressures will be controlled with mud weight and 5000# BOP and rotating head.

8. ANTICIPATED STARTING DATES AND NOTIFICATION OF OPERATIONS

- a. Drilling is planned to commence in upon approval of this application.
- b. It is anticipated that the drilling of this well will take approximately 35 days.
- c. The BLM in Vernal, Utah shall be notified of the anticipated date of location construction commencement and of anticipated spud date.



- d. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.
- e. The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.
- f. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the Vernal BLM District Office, 170 South 500 East, Vernal, UT 84078.
- g. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.
- h. If a replacement rig is contemplated for completion operations, a "Sundry Notice" Form 3160-5 to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
- i. Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communications, not later than 5 days following the date on which the well is placed on production.
- j. Pursuant to Onshore Order No. 7, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.
- k. Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.



ONSHORE ORDER NO. 1
Gasco Production Company
Wilkin Ridge Federal #41-21-10-17
478' FNL and 813' FEL
NE NE Section 21, T10S-R17E
Duchesne County, Utah

CONFIDENTIAL - TIGHT HOLE

Lease No. UTU-75083

DRILLING PROGRAM

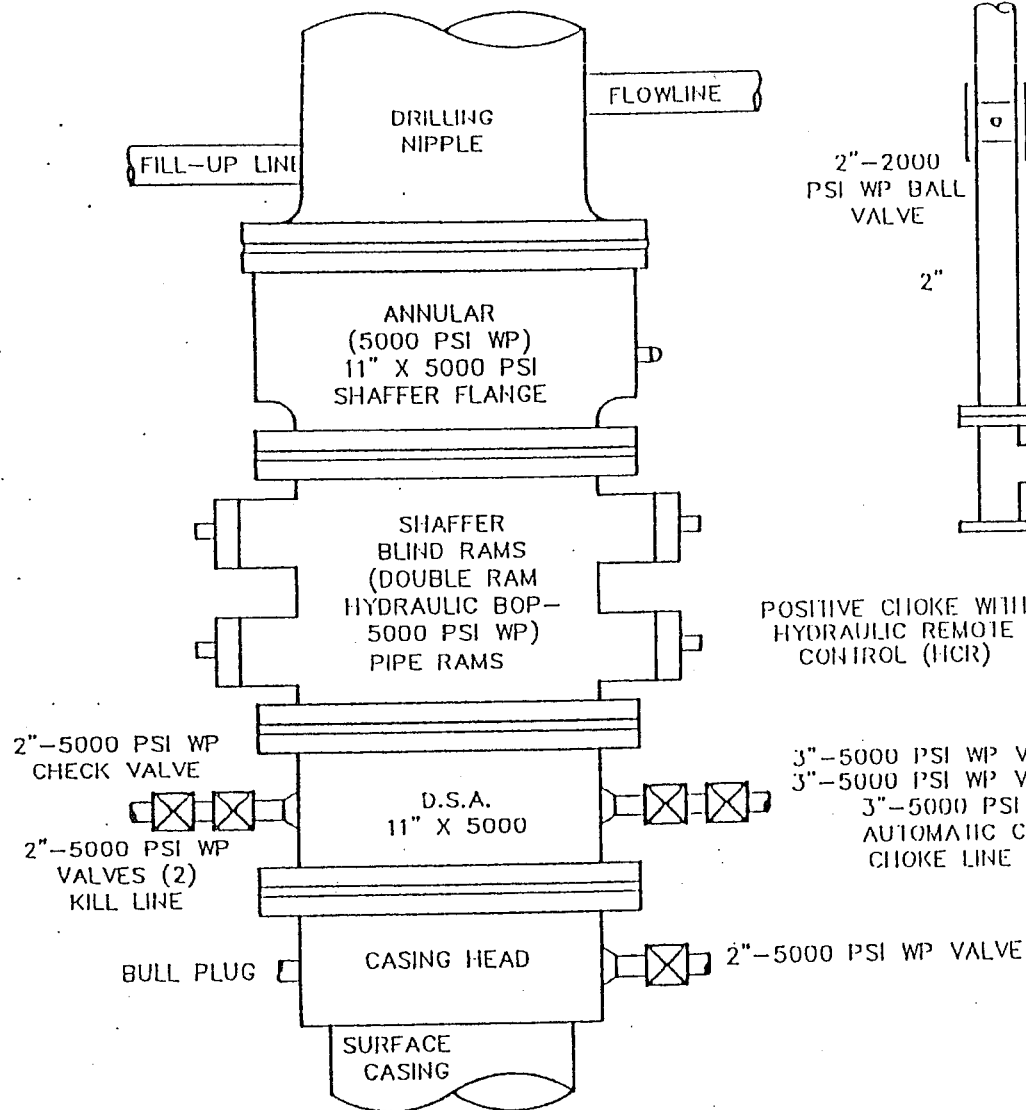
Page 10

- l. A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9.d.), shall be submitted to the appropriate District Office within sixty (60) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (b.4.).
- m. A first production conference will be scheduled within 15 days after receipt of the first production notice.
- n. No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the SO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.
- o. Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

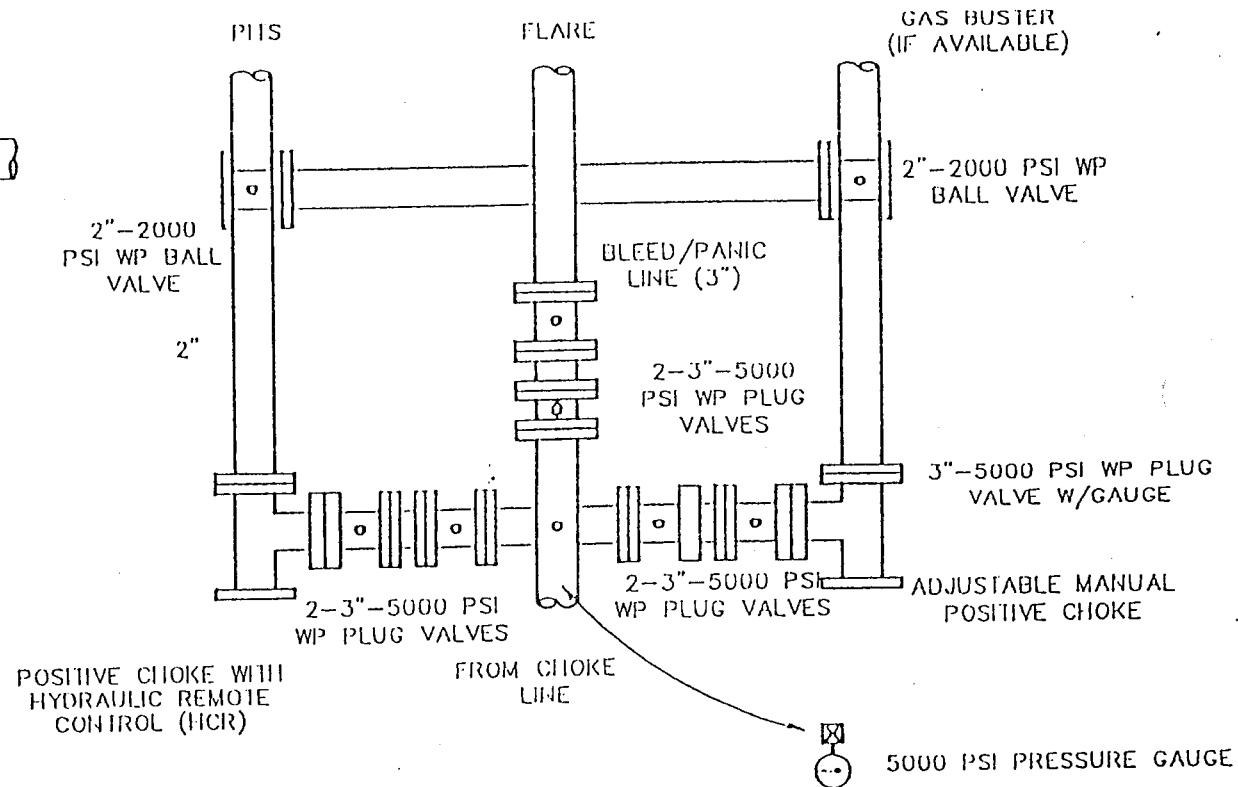
Bureau of Land Management 170 South 500 East Vernal, Utah 84078		
Phone: 435/781-4400		Fax: 435/781-4410
After Hours:		
Matt Baker	Petroleum Engineer	435/828-4470
Michael Lee	Petroleum Engineer	435/828-7875



BOP SCHEMATIC
5000 PSI WORKING PRESSURE



PLAN VIEW CHOKING MANIFOLD



THE HYDRAULIC CLOSING UNIT WILL BE LOCATED MORE THAN 30' FROM THE WELLHEAD. CHOKER AND BLEED/PANIC LINES WILL GO TO THE PIT AND FLARE. ALL CONNECTIONS IN CHOKER LINES AND MANIFOLD WILL BE FLANGED OR WELDED. ALL FLANGES SHOULD BE RING JOINT GASKET TYPE. ALL TURNS IN LINES SHALL BE CONSTRUCTED USING TARGETING 90° TEES OR ELLS. ALL LINES SHALL BE ANCHORED.

ONSHORE ORDER NO. 1
Gasco Production Company
Wilkin Ridge Federal #41-21-10-17
478' FNL and 813' FEL
NE NE Section 21, T10S - R17E
Duchesne County, Utah

~~CONFIDENTIAL~~ - TIGHT HOLE

Lease No. UTU-75083

SURFACE USE PLAN

Page 1

**ONSHORE OIL & GAS ORDER NO. 1
NOTIFICATION REQUIREMENTS**

Location Construction -	forty-eight (48) hours prior to construction of location and access roads.
Location Completion -	prior to moving on the drilling rig.
Spud Notice -	at least twenty-four (24) hours prior to spudding the well.
Casing String and Cementing -	twenty-four (24) hours prior to running casing and cementing all casing strings.
BOP and Related Equipment Tests -	twenty-four (24) hours prior to initiating pressure tests.
First Production - Notice	within five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

The onsite inspection for the subject well site was conducted on Wednesday, March 15, 2006 at approximately 10:45 a.m. Weather conditions were cold and windy. There was approximately 3 inches of snow on the ground at the time of inspection. In attendance at the onsite inspection were the following individuals:

Brandon McDonald	Wildlife Biologist	Bureau of Land Management
Chris Carusona	Natural Resource Specialist	Bureau of Land Management
Lisa Smith	Permitting Agent	Permitco Inc.
Shawn Hawk	Surveyor	Uintah Engineering and Land Surveying
Shawn Elworthy	Field Supervisor	Gasco Production Company

1. EXISTING ROADS

- a. The proposed well site is located approximately 22 miles south of Myton, Utah.



- b. Directions to the location from Myton, Utah are as follows:

Proceed in a southeasterly direction from Myton, Utah for approximately 12.7 miles to the Castle Peak Mine. Stay right and continue southerly for 6.6 miles. Turn right and proceed southerly 2.7 miles. Turn left onto the proposed road re-route. Turn right onto the proposed access and proceed westerly 190 feet until reaching the proposed location.

- c. For location of access roads within a 2-Mile radius, see Maps A & B.
- d. Improvement to existing main roads will not be required.
- e. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.
- f. Existing roads and newly constructed roads on surface under the jurisdiction of any Surface Managing Agency shall be maintained in accordance with the standards of the SMA.

2. PLANNED ACCESS ROADS

- a. The proposed location is located immediately adjacent to the existing County Road. As a result, it will be necessary to re-route the County Road, on a temporary basis, for a distance of approximately 0.15 miles around the east side of the wellpad. Gasco Production Company has consulted with Forrest Bird of Duchesne County Road Department and he has agreed to the temporary road re-route. Gasco has agreed to put warning signs at the top of the hill, south of the location, advising travelers of the road re-route. Once the well is completed, the road will be returned to it's original alignment and the warning signs will be remmoved.

In addition, approximately 190 feet of new access will be constructed off of the re-routed portion of road. This road is only temporary during drilling and completion operations and will be reclaimed once the county road is re-aligned.

- b. The maximum grade is approximately 5%.
- c. No turnouts are planned.



- d. No culverts will be necessary. Low water crossings will be installed as deemed necessary at the time of construction.
- e. The access road was centerline surveyed at the time of staking.
- f. The use of surfacing material is not anticipated, however it may be necessary depending on weather conditions.
- g. No cattle guards will be necessary.
- h. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.
- i. Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).
- j. The road will be constructed/upgraded to meet the standards of the anticipated traffic flow and all weather road requirements. Construction/upgrading shall include ditching, draining, graveling, crowing and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot right-of-way will not be allowed. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.
- k. No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.
- l. No road right of ways will be necessary since all new access is within the lease boundary.



3. LOCATION OF EXISTING WELLS WITHIN A 1-MILE RADIUS OF THE PROPOSED LOCATION.

(See Map "C")

- a. Water wells - none
- b. Injection wells - none
- c. Producing wells - none
- d. Drilling wells - none
- e. Shut-in wells - none
- f. Temporarily abandoned wells - none
- g. Disposal wells - none
- h. Abandoned wells - one
- i. Dry Holes - none

4. LOCATION OF TANK BATTERIES AND PRODUCTION FACILITIES.

- a. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted Carlsbad Canyon. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded.
- b. If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain at a minimum, the entire contents of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.
- c. If production is established, a production facility diagram will be submitted via Sundry Notice.
- d. All loading lines will be placed inside the berm surrounding the tank battery.



- e. Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flow line will be buried or anchored down from the wellhead to the separator. Meter runs will be housed and/or fenced.
- f. The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal Field Office. All meter measurement facilities will conform with Onshore Oil and Gas Order No. 4 for liquid hydrocarbons and Onshore Oil and Gas Order No. 5 for natural gas measurement.
- g. If at any time the facilities located on public land and authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change), BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental or other financial obligation as determined by the authorized officer.
- h. Any necessary pits will be properly fenced to prevent any wildlife entry.
- i. All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.
- j. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.
- k. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic.
- l. The road will be maintained in a safe useable condition.
- m. Produced water will be stored in a 300 bbl heated, insulated tank, then hauled to a commercial disposal site such as Disposal Inc., or Brennan Bottom.
- n. There is an existing pipeline, paralleling the county road on the east side of the road. The pipeline will be buried underneath the county road and will tie-in immediately adjacent to the wellpad. See Pipeline detail attached. No pipeline right of way will be necessary.



5. LOCATION AND TYPE OF WATER SUPPLY

- a. The proposed water source will be the Nebecker Water Station in Myton. The Water Use Claim # is 43-1721. In addition, recycled water from other drilling or producing wells will be utilized.
- b. Water will be hauled by Nebecker Water Service to the location over the access roads shown on Maps A and B.
- c. No water well will be drilled on this lease.

6. SOURCE OF CONSTRUCTION MATERIAL

- a. Surface and subsoil materials in the immediate area will be utilized.
- b. Any gravel used will be obtained from a commercial source.
- c. The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2.3. Construction material will not be located on lease.
- d. No construction materials will be removed from Federal land.

7. METHODS OF HANDLING WASTE DISPOSAL

- a. The reserve pit will be constructed so as not to leak, break, or allow discharge.
- b. At the request of the BLM, the reserve pit will be lined with a 12 mil liner. If fractured rock is encountered, the pit will be first lined with sufficient bedding (either straw or dirt) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. More stringent protective requirements may be deemed necessary by the A.O.
- c. Burning will not be allowed. All trash will be contained in a trash cage and its contents removed at the end of drilling operations and hauled to an approved disposal sight.



- d. After first production, produced waste water will be confined to a unlined pit or storage tank for a period not to exceed ninety (90) days. During the 90-day period, in accordance with Onshore Order No. 7, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.
- e. Drill cuttings are to be contained and buried in the reserve pit.
- f. Any salts and/or chemicals which are an integral part of the drilling system will be disposed of in the same manner as the drilling fluid.
- g. A chemical porta-toilet will be furnished with the drilling rig.
- h. The produced fluids will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas salt water or other produced fluids will be cleaned up and removed.

8. ANCILLARY FACILITIES

There are no airstrips, camps, or other facilities planned during the drilling of the proposed well.

9. WELL SITE LAYOUT

- a. The operator or his/her contractor shall contact the BLM Office at 435/781-4400 forty-eight (48) hours prior to construction activities.
- b. The reserve pit will be located on the south side of the location and will be constructed entirely in cut.
- c. The flare pit will be located on the west side of the reserve pit, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.
- d. The stockpiled topsoil (first six inches) will be stored on the north side of the location, between Corners 2 and 9. Topsoil along the access route will be wind rowed on the uphill side.



- e. Access to the well pad will be from the east as shown on the Pit & Pad Layout.
- f. See Location Layout for orientation of rig, cross section of drill pad and cuts and fills.
- g. The location of mud tanks; reserve pit, trash cage; pipe racks; living facilities and soil stockpiles will be shown on the Location Layout.
- h. All pits will be fenced according to the following minimum standards:
 - 1. 39 inch net wire shall be used with at least one strand or barbed wire on top of the net wire (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
 - 2. The net wire shall be no more than 2-inches above the ground. The barbed wire shall be 3-inches above the net wire. Total height of the fence shall be at least 42-inches.
 - 3. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
 - 4. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
 - 5. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.
- i. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until cleanup.

10. **PLANS FOR RESTORATION OF SURFACE**

Producing Location

- a. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash and junk not required for production.



- b. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.
- c. If a plastic nylon reinforced liner is used it shall be torn and perforated before backfilling of the reserve pit.
- d. The reserve pit and that portion of the location not needed for production facilities or operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed and all cans, barrels, pipe, etc., will be removed.
- e. Reclamation of unused disturbed areas on the well pad/access road no longer needed for operations, such as cut slopes, and fill areas will be accomplished by grading, leveling and seeding as recommended by the Authorized Officer. The following seed mixture has been requested by the Bureau of Land Management.

<i>Species</i>	<i>Pounds PLS/Acres</i>
Western Wheatgrass	6
Galletta	6
TOTAL	12

Seeding will be performed immediately after the location has been reclaimed and the pit has been backfilled, regardless of the time of year. Seed will be broadcast and walked in with a dozer.

- f. The topsoil stockpile will be seeded as soon as the location has been constructed with the same recommended seed mix. The seed will be walked in with a cat.

Dry Hole

- g. At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and BLM will attach the appropriate surface rehabilitation conditions of approval.



Interim Surface Reclamation will be as follows:

1. Immediately after final well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production operations.
2. Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in the reserve pit will be removed. Other waste and spoil materials will be disposed of immediately, weather permitting, upon final well completion.
3. If a synthetic, nylon re-enforced, liner is used, the excess liner will be cut off and removed and the remaining liner will be torn and perforated while backfilling the reserve pit. Alternatively, the pit will be pumped dry, the liner folded into the pit, and the pit backfilled. The liner will be buried to a minimum of four (4) feet deep.
4. The reserve pit will be reclaimed within 180 days from the date of final well completion, weather permitting.
5. The reserve pit and that portion of the location not needed for production and storage facilities, and everyday production operations, will be reshaped to the approximate original contours to the extent possible. This will be completed by backfilling and crowning the pit to prevent water from standing. Topsoil will be re-spread up to the rig anchor points, excluding the area needed for production and storage facilities and everyday production operations. Re-seeding, using appropriate reclamation methods, will occur immediately following the re-spreading of topsoil, weather permitting. The Authorized Officer will provide a seed mixture to re-vegetate the reserve pit and other unused disturbed areas at the time of the onsite.

11. **SURFACE OWNERSHIP**

Access Roads - The majority of the access roads are maintained by the County Road Department or the Bureau of Land Management.

Well pad - The well pad is located on lands managed by the BLM.



12. OTHER INFORMATION

- a. A Class III archeological survey was previously conducted by Grand River Institute. A copy of this report is attached.
- b. A Paleontological Evaluation has been conducted by Alden Hamblin. A copy of this report is attached.
- c. The operator is responsible for informing all persons in the areas who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five working days the AO will inform the operator as to:
 - whether the materials appear eligible for the National Register of Historic Places;
 - the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
 - a time frame for the AO to complete and expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate. If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.
- d. The operator will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the BLM, or the appropriate County Extension Office. On BLM administered land it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.



- e. Drilling rigs and/or equipment used during drilling operations on this wellsite will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure.
- f. All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.
- g. A complete copy of the approved APD shall be on location during construction of the location and drilling activities.
- h. There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended or abandoned will be identified in accordance with 43 CFR 3162.
- i. "Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.
- j. This permit will be valid for a period of one year from the date of approval. An extension period may be granted, if requested, prior to the expiration of the original approval period. After permit termination, a new application will be filed for approval for any future operations.
- k. The operator or his contractor shall contact the BLM Offices at 435/781-4400 48 hours prior to construction activities.
- l. The BLM Office shall be notified upon site completion prior to moving on the drilling rig.



ONSHORE ORDER NO. 1
Gasco Production Company
Wilkin Ridge Federal #41-21-10-17
478' FNL and 813' FEL
NE NE Section 21, T10S - R17E
Duchesne County, Utah

~~CONFIDENTIAL~~ - TIGHT HOLE

Lease No. UTU-75083

SURFACE USE PLAN

Page 13

13. **LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION**

Permit Matters

PERMITCO INC.

14421 County Road 10
Ft. Lupton, CO 80621
303/857-9999 (O)
303/857-0577 (F)
Lisa Smith

Drilling & Completion Matters

Gasco Production Company

8 Inverness Drive East, Suite 100
Englewood, CO 80112
John Longwell
303/483-0044 (O)
303/ 483-0011(F)

Shawn Elworthy
Roosevelt, UT
(Cell) 435-823-4272

CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Gasco Production Company and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.

This statement is subject to the provisions of 18.U.S.C. 1001 for the filing of a false statement.

August 11, 2006
Date:

Tabatha Parker
Tabatha Parker- PERMITCO INC.
Authorized Agent for:
Gasco Production Company



— PIPELINE INFORMATION —
Wilkin Ridge Federal #41-21-10-17

1. The type of pipeline is a single well flow line.
2. The outside diameter (O.D.) of all will be 8 inches maximum.
3. The anticipated production through the line is approximately 2000 MCF per day.
4. The anticipated maximum test pressure is 1000 psi.
5. The anticipated operating pressure is 100-200 psi.
6. The type of pipe is steel.
7. The method of coupling is welded.
8. The pipeline will be buried on the well pad and underneath the county road. The tie-in point is located immediately east of the county road at an existing line that runs parallel to the county road.
9. There are no other pipelines to be associated in same right of way.
10. There will be other objects to be associated in the same right of way. (Risers, Pig Launchers Pig Traps, meters and other appurtenances as required.)
11. The total length of pipeline is approximately 140 feet.
12. The construction width for total surface disturbing activities is 30 feet.
13. No new surface disturbing activities will occur because the pipeline will be buried on the pad and under the county road.
14. Any surface disturbance created as a result of the pipeline construction will be reclaimed utilizing the reclamation procedures and seed mixture specified by the Bureau of Land Management.
15. The line will be tested with gas pressure to 1000 psi.



FEDERAL STIPULATIONS

A Timing Limitation Stipulation may apply for Ferruginous Hawk from March 1 through July 31. The nest was not active at the time of the onsite inspection on March 15, 2006. Brandon McDonald of the Bureau of Land Management has recommended that another inspection be conducted in May.



✦ Grand River Institute ✦

P.O. Box 3543 ✦ Grand Junction, CO 81502 ✦ 970/245-7868 FAX 970/245-6317

March 8, 2006

Gasco, Inc.
8 Inverness Drive East
Suite 100
Englewood, CO 80112

Attn: Mike Decker

Re: GRI Project No. 2612 – Class III cultural resources inventory for Gasco Production Company of seven proposed Wilkin Ridge well locations (Fed. #33-19-10-17, Fed. #43-20-10-17, Fed. #11-21-10-17, Fed. #41-21-10-17, Fed. #41-28-10-17, Fed. #23-28-10-17, and Fed. #41-31-10-17) and 1.4 miles of linear routes (roads and/or pipelines) in Duchesne County, Utah

GRI Project No. 2614 – Class III cultural resources inventory for Gasco Production Company of two proposed Wilkin Ridge well locations (Fed. #12-33-10-17 and Fed. #23-33-10-17) and 1.67 miles of linear routes (roads and/or pipelines) in Duchesne County, Utah

Dear Mike:

Enclosed are two copies of our final reports for the above cited projects. Copies have been distributed as indicated below. Also enclosed is our invoice. Please call me if you have any questions or comments.

Sincerely,



Carl E. Conner
Director

Enc.

Distribution:

2 of each – Blaine Phillips, BLM Vernal Field Office Archaeologist
1 of each – Lisa Smith, Permitco
2 of GRI#2614 – Kenny Wintch, Utah State Land Trust



Form UT-8100-3
(December 2000)

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
UTAH STATE OFFICE

Page 1 of 2

**Summary Report of Cultural
Resources Inspection**

Project No.: U06-GB-0120b
[GRI Project No. 2612]

1. Report Title: **Class III cultural resources inventory for Gasco Production Company of seven proposed Wilkin Ridge well locations (Fed. #33-19-10-17, Fed. #43-20-10-17, Fed. #11-21-10-17, Fed. #41-21-10-17, Fed. #41-28-10-17, Fed. #23-28-10-17, and Fed. #41-31-10-17) and 1.4 miles of linear routes (roads and/or pipelines) in Duchesne County, Utah**
2. Report Date: **03/07/2006**
3. Date(s) of Survey: **02/27 and 28/2006**
4. Development Company: **Gasco Production Company**
5. Responsible Institution: **BLM Vernal Field Office**
6. Responsible Individuals Principal Investigator: Field Supervisor: **Carl E. Conner**
Report Author(s): **Carl E. Conner and Barbara J. Davenport**
7. BLM Field Office: **Vernal Field Office**
8. County(ies): **Duchesne**
9. Fieldwork Location: **T. 10 S., R. 17 E., Sections 19, 20, 21, 28, 29 and 31; S.L.B.M.**
10. Record Search:

Location of Records Searched for BLM: **BLM Vernal, UDSH** Date: **02/27/2006**

11. Description of Proposed Project: **Seven well locations and 1.4 mile linear route**
12. Description of Examination Procedures: **A Class III, 100% pedestrian, cultural resources survey of the proposed well location was made by walking a series of concentric circles around the flagged center to a diameter of 750 feet. The linear routes were surveyed by walking four parallel transects spaced at 15m intervals and centered on the flagged lines to cover 200 foot-wide corridors.**

13. Area Surveyed:	BLM	OTHER FED	STATE	PRI.
Linear Miles Intensive:	1.4			
Recon/Intuitive:				
Acreage Intensive:	70			
Recon/Intuitive:				

14. Sites Recorded:

Smithsonian Site Numbers	#	BLM	OTHER FED	STATE	PRI.
Revisits NR Eligible	0				
(no IMACS form) Not Eligible	0				
Revisits NR Eligible	0				
updated IMACS) Not Eligible	0				
New NR Eligible	0				
Recordings Not Eligible	0				
Total Number of Archaeological Sites	0				
Historic Structures (USHS Form)	0				
Total National Register Eligible Sites	0				

15. Description of Findings: (see attached report) **No significant historic properties were identified within the areas of direct impact.**

16. Collection Yes No

(If Yes) Curation Facility:

Accession Number(s):

17. Conclusion/Recommendations: **Clearance is recommended.**

UTAH STATE COVER PAGE

Must Accompany All Project Reports
Submitted to Utah SHPO

Project Name: Class III cultural resources inventory for Gasco Production Company of seven proposed Wilkin Ridge well locations and 1.4 miles of linear routes (roads and/or pipelines) in Duchesne County, Utah

State Proj. No. **U06-GB-0120b**

Report Date: **03/07/2006**

County(ies): **Duchesne**

Principal Investigator: **Carl E. Conner**

Field Supervisor(s): **Carl E. Conner**

Records search completed at: **BLM and UDSH**

Record search date(s): **2/27/06**

Acreage Surveyed ~ Intensive: **104.25**

Recon/Intuitive: 0 acres

7.5' Series USGS Map Reference(s): **Wilkin Ridge 1965**

Sites Reported	Count	Smithsonian Site Numbers
Archaeological Sites		
Revisits (no inventory form update)	0	
Revisits (updated IMACS site inventory form attached)	0	
New recordings (IMACS site inventory form attached)	0	
Total Count of Archaeological Sites	0	
Historic Structures (USHS 106 site info form attached)	0	
Total National Register Eligible Sites	0	

-----Checklist of Required Items-----

1. X Copy of the Final Report
2. X Copy of 7.5' Series USGS Map with Surveyed/Excavated Area Clearly Identified.
3. Completed IMACS Site Inventory Forms, Including
 - Parts A and B or C,
 - The IMACS Encoding Form,
 - Site Sketch Map,
 - PhotographsCopy of the appropriate 7.5' Series USGS Map w/ the Site Location Clearly Marked and Labeled with the Smithsonian Site Number
4. X Completed "Cover Sheet" Accompanying Final Report and Survey Materials (Please make certain all of your checked items are attached.)

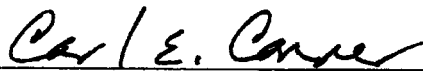
**Class III Cultural Resource Inventory Report
of
Seven Proposed Well Locations and Related Linear Routes (1.4 miles)
in Duchesne County, Utah
for
Gasco Production Company**

Declaration of Negative Findings

GRI Project No. 2612
7 March 2006

Prepared by

Grand River Institute
P.O. Box 3543
Grand Junction, Colorado 81502
BLM Antiquities Permit No.05UT54939
UDSH Project Authorization No. U06-GB-0120b



Carl E. Conner, Principal Investigator

Submitted to

The Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, Utah 84078

Abstract

Grand River Institute conducted a Class III cultural resources inventory for Gasco Production Company of seven proposed Wilkin Ridge well locations (Fed. #33-19-10-17, Fed. #43-20-10-17, Fed. #11-21-10-17, Fed. #41-21-10-17, Fed. #41-28-10-17, Fed. #23-28-10-17, and Fed. #41-31-10-17) and 1.4 miles of linear routes (roads and/or pipelines) in Duchesne County, Utah, under BLM Antiquities Permit No. 05UT-54939 and Utah Division of State History (UDSH) Project Authorization No. U06-GB-0120b. This work was done to meet requirements of Federal laws that protect cultural resources.

Files searches conducted through the BLM Vernal Field Office (BLM) and through Utah Division of State History indicated no sites were previously recorded in the project areas. Field work was performed on the 27th and 28th of February 2006. A total of about 104.25 acres (BLM) was inspected. As a result no cultural resources were encountered. Accordingly, no significant historical properties were identified within the areas of direct impact and archaeological clearance is recommended for the proposed wells and linear routes.

Table of Contents

Introduction	1
Location of Project Area	1
Environment	2
Figure 1. Project location map	3
Files Search	4
Study Objectives	4
Field Methods	4
Study Findings and Management Recommendations	5
References	5

Introduction

At the request of Gasco Production Company and the Bureau of Land Management Vernal Field Office (BLM), Grand River Institute (GRI) conducted a Class III cultural resources inventory for Gasco Production Company of seven proposed Wilkin Ridge well locations (Fed. #31-19-10-17, Fed. #43-20-10-17, Fed. #11-21-10-17, Fed. #41-21-10-17, Fed. #41-28-10-17, Fed. #23-28-10-17, and Fed. #41-31-10-17) and 1.4 miles of linear routes (roads and/or pipelines) in Duchesne County, Utah, under BLM Antiquities Permit No. 05UT-54939 and Utah Division of State History (UDSH) Project Authorization No. U06-GB-0120b. File searches conducted through the BLM Vernal Field Office (BLM) on the 27th of February 2006 and through UDSH indicated no sites had been previously recorded in the project areas. Field work was performed on the 27th and 28th of February 2006. A total of about 104.25 acres (BLM) was inspected. The file searches, survey and report were completed by Carl E. Conner (Principal Investigator), Barbara J. Davenport, and Dana Archuleta.

The survey was done to meet requirements of the Federal Land Policy and Management Act of 1976, the National Historic Preservation Act as amended in 1992, and the National Environmental Policy Act (NEPA) of 1969. These laws are concerned with the identification, evaluation, and protection of fragile, non-renewable evidences of human activity, occupation and endeavor reflected in districts, sites, structures, artifacts, objects, ruins, works of art, architecture, and natural features that were of importance in human events. Such resources tend to be localized and highly sensitive to disturbance.

Location of Project Area

The study area's discrete units lie southwest of Vernal, Utah, Duchesne County. The 10-acre blocks surveyed for the proposed new well locations, and the 200-foot-wide corridors for the proposed new access roads and/or pipeline routes are listed in Table 1 and shown in Figure 1. Notably, the linear distances of the inventoried access and pipeline routes are calculated outside the 10-acre block inventory areas.

Table 1. List of well locations and linear routes.

Well Designation	Land Status	Location
Fed. #33-19-10-17	BLM	T. 10 S., R. 17 E., Section 19 Access in Section 20
Fed. #43-20-10-17	BLM	T. 10 S., R. 17 E., Section 20

Well Designation	Land Status	Location
Fed. #11-21-10-17	BLM	T. 10 S., R. 17 E., Section 21 Linear route in Secs. 17 and 20
Fed. #41-21-10-17	BLM	T. 10 S., R. 17 E., Section 21
Fed. #41-28-10-17	BLM	T. 10 S., R. 17 E., Section 28
Fed. #23-28-10-17	BLM	T. 10 S., R. 17 E., Section 28 Linear route in Sec. 29
Fed. #41-31-10-17	BLM	T. 10 S., R. 17 E., Section 31

Environment

The project areas are within the major geologic subdivision of the Colorado Plateau known as the Uinta Basin Section. In Utah, this section extends from the Uinta Mountains on the north to the Book Cliffs on the south. It is a broad downwarp into which Quaternary- and Tertiary-age deposits were made from the surrounding mountains which include Holocene and Pleistocene pediment deposits, and Eocene-age fluvial and lacustrine sedimentary rocks (Rigby 1976:xi). Physiographically, the basin includes the Uinta basin in the north portion and the Book Cliffs/Roan Plateau in the south portion. The lower Uinta Formation is the bedrock of the study area. Holocene and Pleistocene-age alluvium and colluvium occur as a veneer over the Uinta. It consists of channel and flood-plain stream deposits. Soils encountered were rocky, shaley, silty, and sandy loams, which are in general formed in residuum from the underlying formation. However, dunes are common in this region as well.

Elevations in the project area range from 5760-to-6380 feet. The terrain is characterized as bench land that is cut by dendritic washes. Vegetation is a shadscale desert community. Regional faunal inhabitants include deer, antelope, elk, black bear, coyote, mountain lion, cottontails, jack rabbits, and various raptors. A cool, mid-latitude steppe climate prevails. Annual precipitation of this elevation range is between 7 and 10 inches. Temperatures range from 100°F in the summer to -40°F in January.

Paleoenvironmental data are scant, but it is generally agreed that gross climatic conditions have remained fairly constant over the last 12,000 years. However, changes in effective moisture, and cooling-warming trends probably affected the prehistoric occupation of the region.

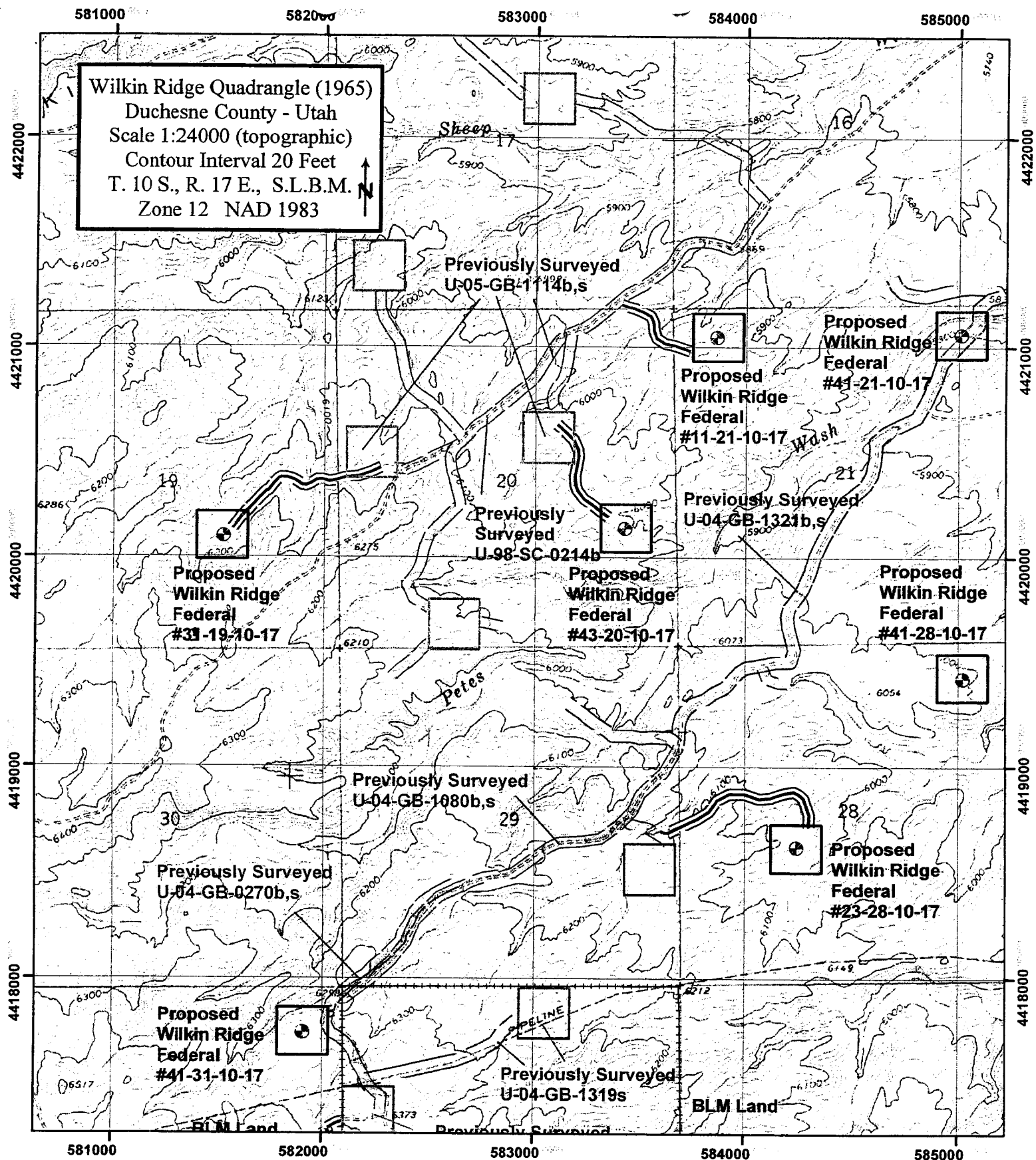


Figure 1. Project area map for the Class III cultural resources inventory of eight proposed Wilkin Ridge well locations and short linear routes (access and/or pipeline) in Duchesne County, Utah, for Gasco, Inc. Areas inventoried are highlighted. [GRI Project # 2612, 3/7/06, U06-GB-0120b]

**Class III Cultural Resource Inventory Report
of
Seven Proposed Well Locations and Related Linear Routes (1.4 miles)
in Duchesne County, Utah
for
Gasco Production Company**

Declaration of Negative Findings

GRI Project No. 2612
7 March 2006

Prepared by

Grand River Institute
P.O. Box 3543
Grand Junction, Colorado 81502
BLM Antiquities Permit No.05UT54939
UDSH Project Authorization No. U06-GB-0120b

Carl E. Conner, Principal Investigator

Submitted to

The Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, Utah 84078

Abstract

Grand River Institute conducted a Class III cultural resources inventory for Gasco Production Company of seven proposed Wilkin Ridge well locations (Fed. #33-19-10-17, Fed. #43-20-10-17, Fed. #11-21-10-17, Fed. #41-21-10-17, Fed. #41-28-10-17, Fed. #23-28-10-17, and Fed. #41-31-10-17) and 1.4 miles of linear routes (roads and/or pipelines) in Duchesne County, Utah, under BLM Antiquities Permit No. 05UT-54939 and Utah Division of State History (UDSH) Project Authorization No. U06-GB-0120b. This work was done to meet requirements of Federal laws that protect cultural resources.

Files searches conducted through the BLM Vernal Field Office (BLM) and through Utah Division of State History indicated no sites were previously recorded in the project areas. Field work was performed on the 27th and 28th of February 2006. A total of about 104.25 acres (BLM) was inspected. As a result no cultural resources were encountered. Accordingly, no significant historical properties were identified within the areas of direct impact and archaeological clearance is recommended for the proposed wells and linear routes.

Table of Contents

Introduction	1
Location of Project Area	1
Environment	2
Figure 1. Project location map	3
Files Search	4
Study Objectives	4
Field Methods	4
Study Findings and Management Recommendations	5
References	5

Introduction

At the request of Gasco Production Company and the Bureau of Land Management Vernal Field Office (BLM), Grand River Institute (GRI) conducted a Class III cultural resources inventory for Gasco Production Company of seven proposed Wilkin Ridge well locations (Fed. #31-19-10-17, Fed. #43-20-10-17, Fed. #11-21-10-17, Fed. #41-21-10-17, Fed. #41-28-10-17, Fed. #23-28-10-17, and Fed. #41-31-10-17) and 1.4 miles of linear routes (roads and/or pipelines) in Duchesne County, Utah, under BLM Antiquities Permit No. 05UT-54939 and Utah Division of State History (UDSH) Project Authorization No. U06-GB-0120b. File searches conducted through the BLM Vernal Field Office (BLM) on the 27th of February 2006 and through UDSH indicated no sites had been previously recorded in the project areas. Field work was performed on the 27th and 28th of February 2006. A total of about 104.25 acres (BLM) was inspected. The file searches, survey and report were completed by Carl E. Conner (Principal Investigator), Barbara J. Davenport, and Dana Archuleta.

The survey was done to meet requirements of the Federal Land Policy and Management Act of 1976, the National Historic Preservation Act as amended in 1992, and the National Environmental Policy Act (NEPA) of 1969. These laws are concerned with the identification, evaluation, and protection of fragile, non-renewable evidences of human activity, occupation and endeavor reflected in districts, sites, structures, artifacts, objects, ruins, works of art, architecture, and natural features that were of importance in human events. Such resources tend to be localized and highly sensitive to disturbance.

Location of Project Area

The study area's discrete units lie southwest of Vernal, Utah, Duchesne County. The 10-acre blocks surveyed for the proposed new well locations, and the 200-foot-wide corridors for the proposed new access roads and/or pipeline routes are listed in Table 1 and shown in Figure 1. Notably, the linear distances of the inventoried access and pipeline routes are calculated outside the 10-acre block inventory areas.

Table 1. List of well locations and linear routes.

Well Designation	Land Status	Location
Fed. #33-19-10-17	BLM	T. 10 S., R. 17 E., Section 19 Access in Section 20
Fed. #43-20-10-17.	BLM	T. 10 S., R. 17 E., Section 20

Well Designation	Land Status	Location
Fed. #11-21-10-17	BLM	T. 10 S., R. 17 E., Section 21 Linear route in Secs. 17 and 20
Fed. #41-21-10-17	BLM	T. 10 S., R. 17 E., Section 21
Fed. #41-28-10-17	BLM	T. 10 S., R. 17 E., Section 28
Fed. #23-28-10-17	BLM	T. 10 S., R. 17 E., Section 28 Linear route in Sec. 29
Fed. #41-31-10-17	BLM	T. 10 S., R. 17 E., Section 31

Environment

The project areas are within the major geologic subdivision of the Colorado Plateau known as the Uinta Basin Section. In Utah, this section extends from the Uinta Mountains on the north to the Book Cliffs on the south. It is a broad downwarp into which Quaternary- and Tertiary-age deposits were made from the surrounding mountains which include Holocene and Pleistocene pediment deposits, and Eocene-age fluvial and lacustrine sedimentary rocks (Rigby 1976:xi). Physiographically, the basin includes the Uinta basin in the north portion and the Book Cliffs/Roan Plateau in the south portion. The lower Uinta Formation is the bedrock of the study area. Holocene and Pleistocene-age alluvium and colluvium occur as a veneer over the Uinta. It consists of channel and flood-plain stream deposits. Soils encountered were rocky, shaley, silty, and sandy loams, which are in general formed in residuum from the underlying formation. However, dunes are common in this region as well.

Elevations in the project area range from 5760-to-6380 feet. The terrain is characterized as bench land that is cut by dendritic washes. Vegetation is a shadscale desert community. Regional faunal inhabitants include deer, antelope, elk, black bear, coyote, mountain lion, cottontails, jack rabbits, and various raptors. A cool, mid-latitude steppe climate prevails. Annual precipitation of this elevation range is between 7 and 10 inches. Temperatures range from 100°F in the summer to -40°F in January.

Paleoenvironmental data are scant, but it is generally agreed that gross climatic conditions have remained fairly constant over the last 12,000 years. However, changes in effective moisture, and cooling-warming trends probably affected the prehistoric occupation of the region.

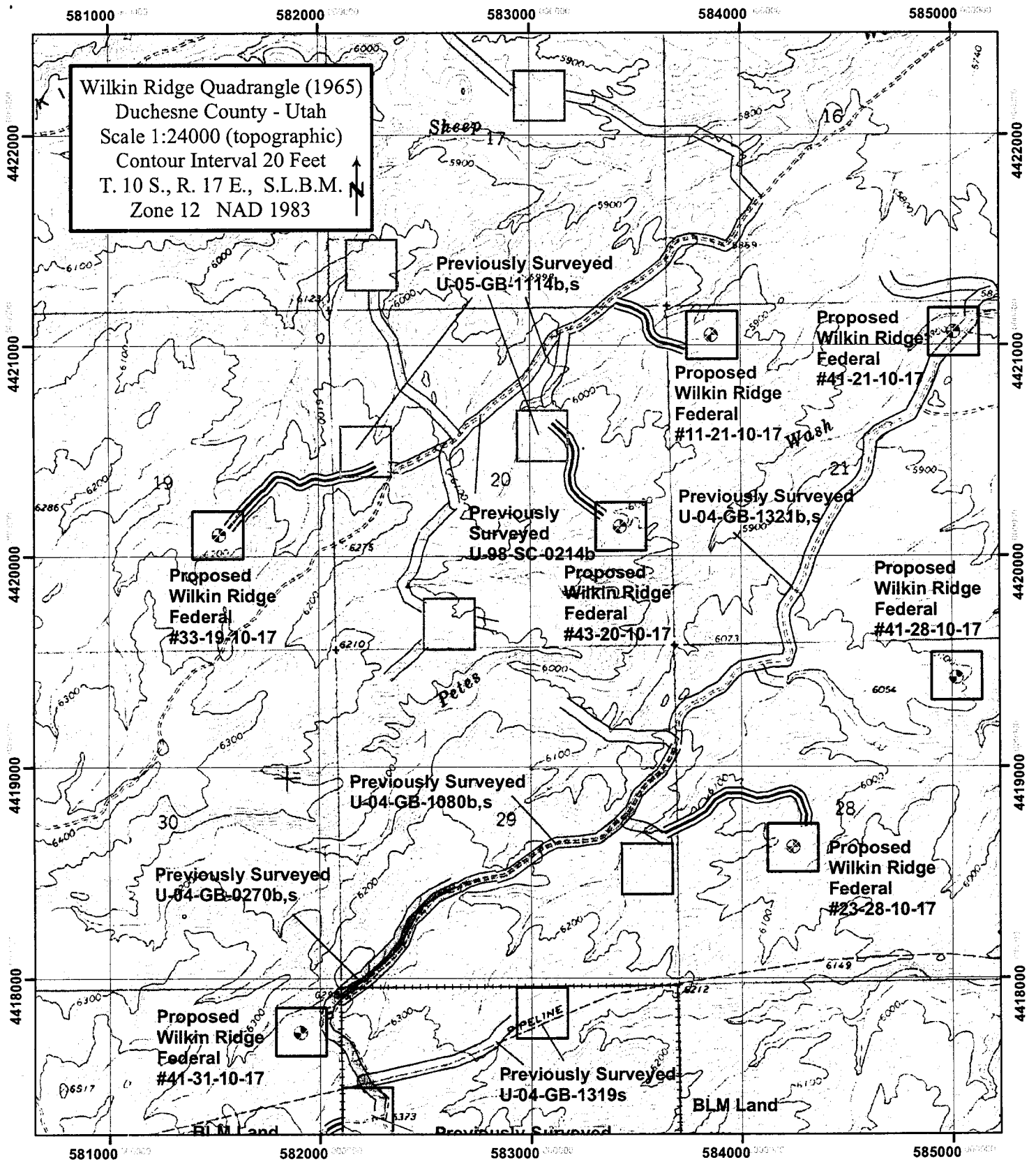


Figure 1. Project area map for the Class III cultural resources inventory of eight proposed Wilkin Ridge well locations and short linear routes (access and/or pipeline) in Duchesne County, Utah, for Gasco, Inc. Areas inventoried are highlighted. [GRI Project # 2612, 3/7/06, U06-GB-0120b]

Files Search

Files searches were conducted through BLM and UDSH. Previous projects in the areas near the inventory blocks and linear routes are numerous and generally relate to oil and gas development. Those that are adjacent to the project areas are discussed below.

Projects that have previously inventoried the connecting access roads and 10-acre blocks include U98-SC-0214b, U04-GB-0270bs, U04-GB-1080bs, U04-GB-1321bs, and U05-GB-1114bs (Figure 1). Others that have been conducted in the general area include U81-PA-0801, U82-BC-0302, U85-BL-0740, U87-BL-0595, U98-SC-0214, and U99-SC-0357. Despite these and other inventories in the area, no cultural resources have been documented. Accordingly, few or none were expected to be found during the current study.

Regional archaeological studies suggest nearly continuous human occupation of northeastern Utah for the past 12,000 years. Evidence of the Paleoindian Tradition, the Archaic Tradition, Fremont Culture, and Protohistoric/Historic Utes has been found. Historic records suggest occupation or use by EuroAmerican trappers, settlers, miners, and ranchers as well. Overviews of the prehistory and history of the region are provided in the Utah BLM Cultural Resource Series No. 11, "Archaeological Inventory in the Seep Ridge Cultural Study Tract, Uintah County, Northeastern Utah with a Regional Predictive Model for Site Locations" (Larralde and Chandler 1980), and in "Cultural Resources Existing Data Inventory Vernal District, Utah" (Jones and Mackay 1980).

Study Objectives

The purpose of the study was to identify and record all cultural resources within the areas of potential impact and to assess their significance and eligibility to the National Register of Historic Places (NRHP). The statements of significance included in this report are field assessments made in support of recommendations to the BLM and State Historic Preservation Officer (SHPO), and the final determination of site significance is made by the BLM in consultation with the SHPO.

Paleontological resources were also considered in the inspection. However, a final evaluation of those resources must be provided by a paleontologist permitted by Utah.

Field Methods

A Class III, 100% pedestrian, cultural resources survey of the proposed well locations was made by walking a series of concentric circles around the flagged centers to diameters of 750 feet. The related access and pipeline routes not included within the 10-acre study plots were surveyed by walking four parallel transects spaced at 15m intervals and centered on the flagged lines to cover corridors 200 feet wide.

Cultural resources were sought as surface exposures and were characterized as sites or isolated finds. Sites were defined by the presence of six or more artifacts and/or significant feature(s) indicative of patterned human activity. Isolated finds were defined by the presence of 1 to 5 artifacts apparently of surficial nature. Cultural resources encountered were to be recorded to standards set by the Preservation Office of the Utah Division of State History (UDSH).

The basic approach to the data collection was the continuous mapping of observed artifacts and features by recording UTM coordinates (NAD 83 Datum) using a Trimble Geo XT. Site maps were created using corrected data and ARCMAP. Photographs were to be taken at each site and to include general views and specific artifacts or features. (No sites were recorded.) Field notes and photo negatives are filed at Grand River Institute, while the photographs are submitted to the BLM and UDSH. No artifacts were collected.

Study Findings and Management Recommendations

As expected from the findings of the previous inventories, no significant historic properties were identified within the area of direct impact. Accordingly, archaeological clearance is recommended.

References

- Jones, Kevin T. and K.L. Mackay
1980 Cultural Resources Existing Data Inventory Vernal District, Utah. Report of Investigations 80-18, University of Utah, Salt Lake City.
- Larralde, Signa L. and Susan M. Chandler
1980 Archaeological inventory in the Seep Ridge Cultural Study Tract, Uintah County, Utah. In: Utah BLM Cultural Resource Series No. 11. Bureau of Land Management, Salt Lake City.
- Rigby, J. Keith
1976 Northern Colorado Plateau. Kendall/Hunt Publishing Company. Dubuque.

PALEONTOLOGY EVALUATION SHEET

PROJECT: (13) GASCO ENERGY WELL – Wilkin Ridge Federal #41-21-10-17

LOCATION: Twenty four miles south of Roosevelt, Utah in NE¼ NE¼ of section 21, T10S, R17E, Duchesne County, Utah.

OWNERSHIP: PRIV[] STATE[] BLM[X] USFS[] NPS[] IND[] MIL[] OTHER[]

DATE: April 10, 2006

GEOLOGY/TOPOGRAPHY: Rock exposures in the area are of the lower part of the lower member of the Uinta Formation, Upper Eocene age. Area has rounded valley bottoms and ridge tops. The location is on a gentle north slope on the south side of a small canyon and wash. Rock exposures are found on the south side of the location while the north side has alluvium.

PALEONTOLOGY SURVEY: YES [] NO Survey [] PARTIAL Survey [X]

SURVEY RESULTS: Invertebrate [] Plant [] Vertebrate [] Trace [] No Fossils Found [X]

PALEONTOLOGY SENSITIVITY: HIGH [] MEDIUM [] LOW [X] (PROJECT SPECIFIC)

MITIGATION RECOMMENDATIONS: NONE [X] OTHER [] (SEE BELOW)

No recommendations are being made.

There is always some potential for discovery of significant paleontological resources in the Uinta Formation. If significant vertebrate fossils (mammals, crocodiles, complete turtle shells, etc.) are encountered during construction, work should stop in that area and a paleontologist contacted to evaluate the material discovered.

PALEONTOLOGIST: Alden H. Hamblin

*A.H. Hamblin Paleontological Consulting, 3793 N. Minersville Highway, Cedar City, Utah 84720 (435) 867-8355
Utah State Paleontological Permit # 04-339, BLM paleontological Resources Permit # UT-S-05-02,
Ute Tribe Access Permits – 03/31/06 & 09/30/06. Utah Professional Geologist License – 5223011-2250.*



Bureau of Land Management
Vernal Field Office
170 S. 500 E.
Vernal, UT 84078

Attn: Minerals

Re: All Wells
Uintah County, Utah

Gentlemen:

This letter is to inform you that Permitco Inc. is authorized to act as Agent and to sign documents on behalf of Gasco Production Company, a wholly owned subsidiary of Gasco Energy, Inc. when necessary for filing county, state and federal permits including Onshore Order No. 1, Right of Way applications, etc., for the above mentioned well.

It should be understood that Permitco is acting as Agent only in those matters stated above and is not responsible for drilling, completion, production or compliance with regulations.

Gasco Production Company agrees to accept full responsibility for operations conducted in order to drill, complete and produce the above-mentioned well.

Yours very truly,


Mark J. Choury
Land Manager

GASCO PRODUCTION COMPANY
WILKIN RIDGE FEDERAL #41-21-10-17
LOCATED IN DUCHESNE COUNTY, UTAH
SECTION 21, T10S, R17E, S.L.B.&M.

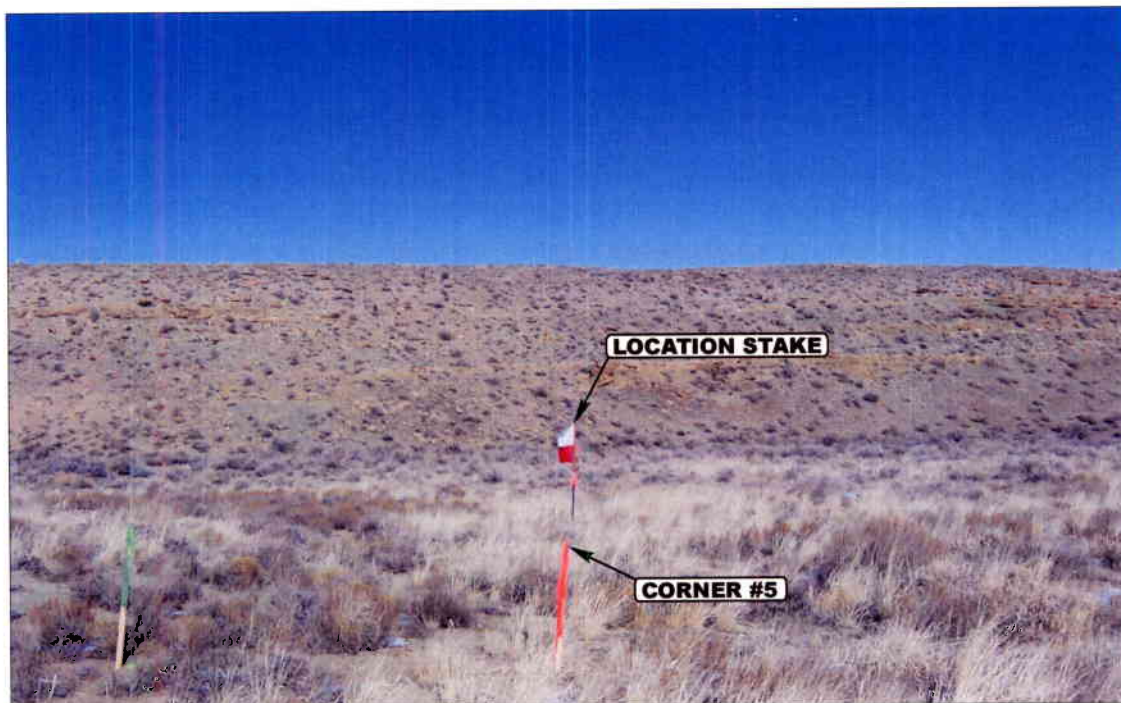


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY

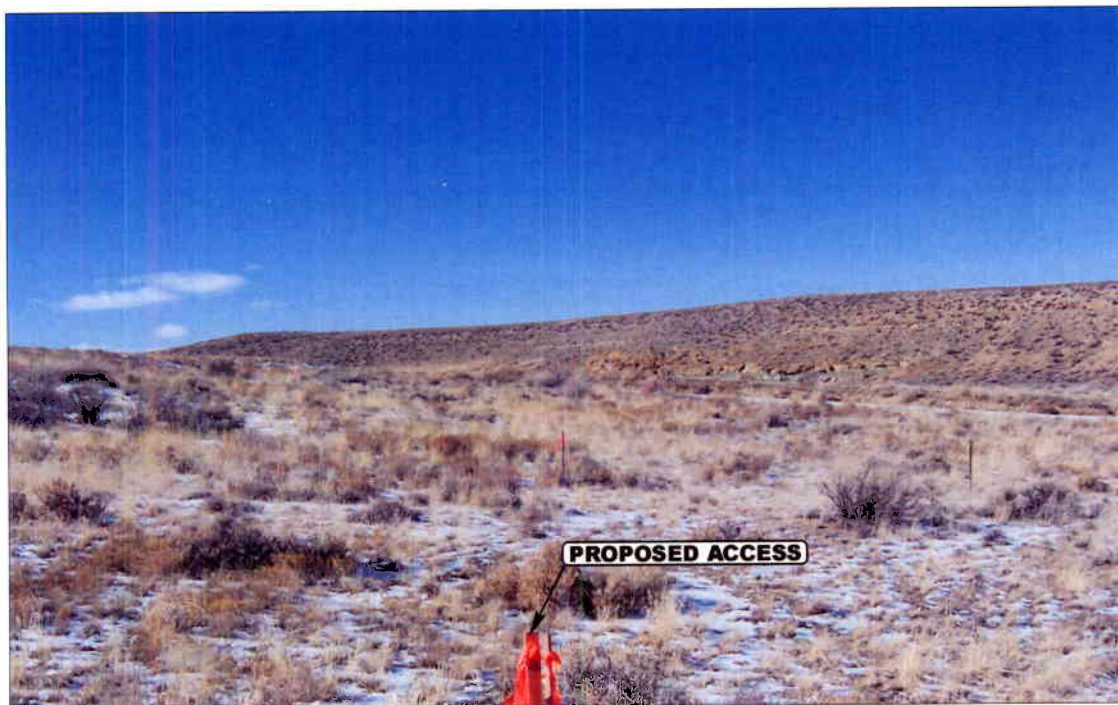


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: EASTERLY



- Since 1964 -

U E L S Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

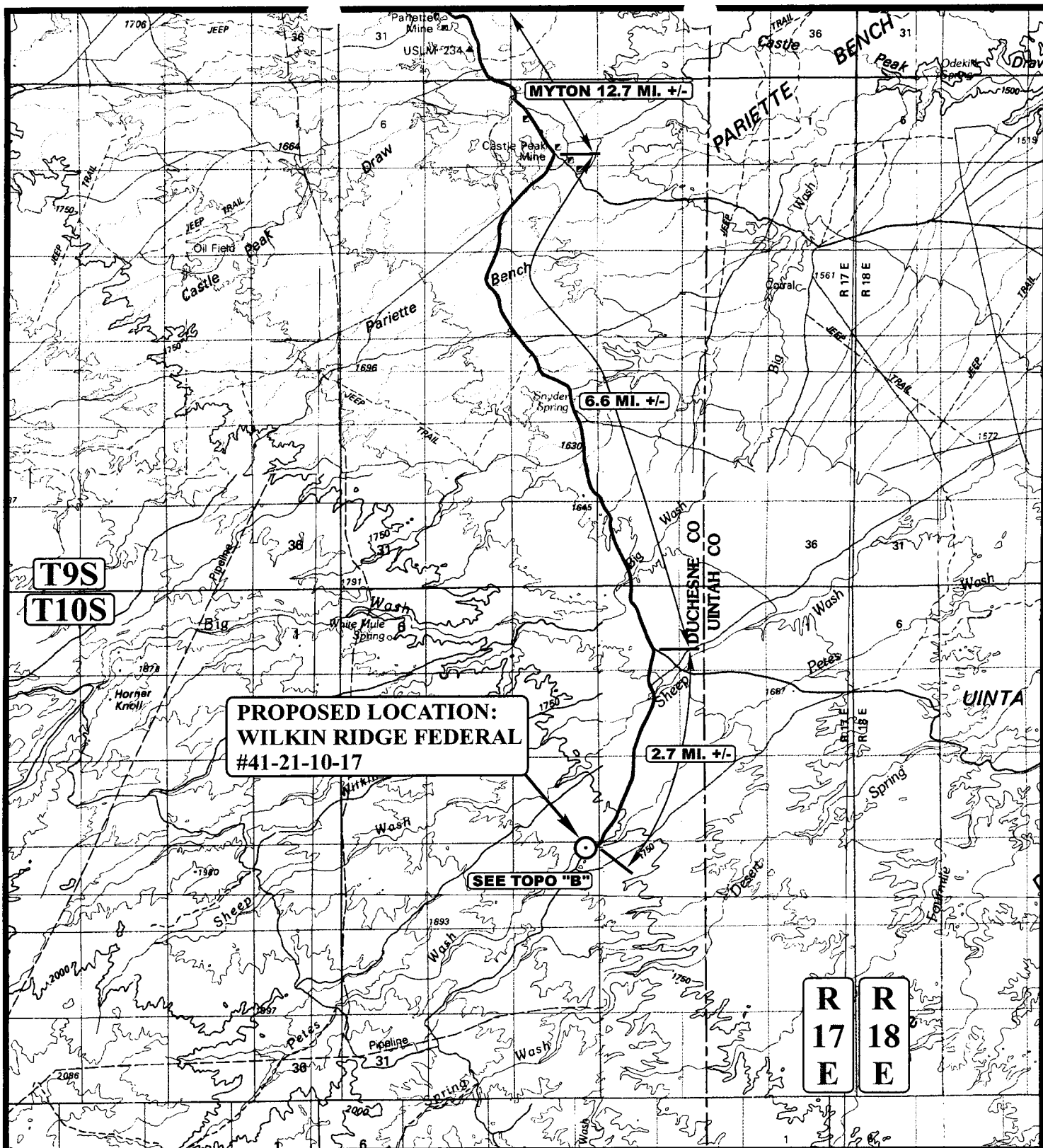
02 01 06
MONTH DAY YEAR

PHOTO

TAKEN BY: J.W.

DRAWN BY: C.H.

REVISED: 00-00-00



LEGEND:

○ PROPOSED LOCATION



GASCO PRODUCTION COMPANY

WILKIN RIDGE FEDERAL #41-21-10-17
SECTION 21, T10S, R17E, S.L.B.&M.
478' FNL 813' FEL



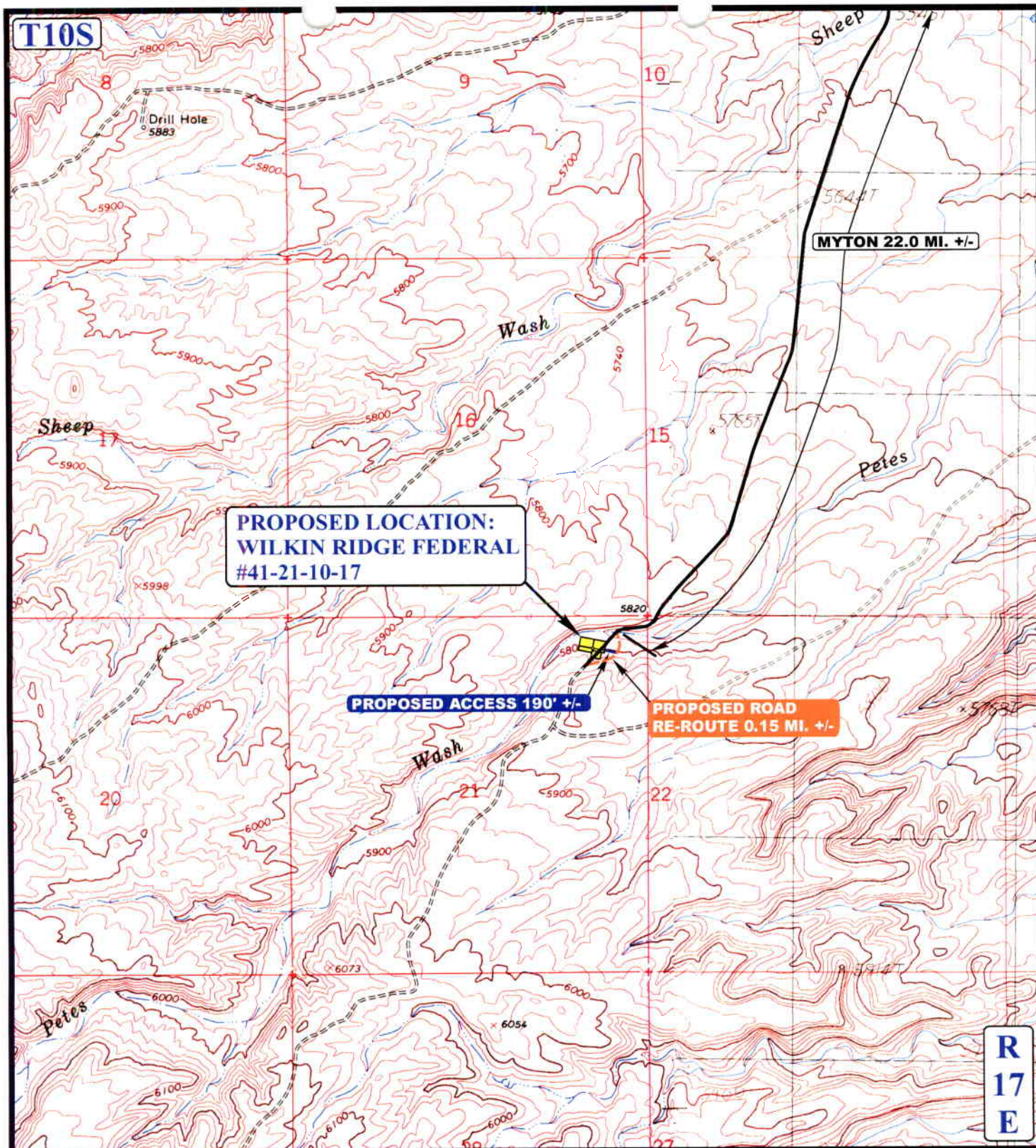
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

02 01 06
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.H. REVISED: 00-00-00





LEGEND:

— EXISTING ROAD
- - - PROPOSED ACCESS ROAD

GASCO PRODUCTION COMPANY

WILKIN RIDGE FEDERAL #41-21-10-17
SECTION 21, T10S, R17E, S.L.B.&M.
478' FNL 813' FEL



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813



**TOPOGRAPHIC
MAP**

02 01 06
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.H. REVISED: 00-00-00

**B
TOPO**

T10S

Drill Hole
5883

**PROPOSED LOCATION:
WILKIN RIDGE FEDERAL
#41-21-10-17**

#1-22

**R
17
E**

LEGEND:

- | | |
|-------------------|-------------------------|
| ○ DISPOSAL WELLS | ○ WATER WELLS |
| ● PRODUCING WELLS | ● ABANDONED WELLS |
| ● SHUT IN WELLS | ● TEMPORARILY ABANDONED |

N

GASCO PRODUCTION COMPANY

**WILKIN RIDGE FEDERAL #41-21-10-17
SECTION 21, T10S, R17E, S.L.B.&M.
478' FNL 813' FEL**

**U
E
L
S**

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

**TOPOGRAPHIC
MAP**

02 01 06
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.H. REVISED: 00-00-00

**C
TOPO**

GASCO PRODUCTION COMPANY

LOCATION LAYOUT FOR

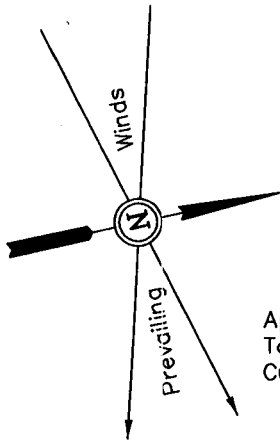
WILKIN RIDGE FEDERAL #41-21-10-17

SECTION 21, T10S, R17E, S.L.B.&M.

478' FNL 813' FEL

Approx.
Toe of
Fill Slope

F-11.9'
El. 792.2'



SCALE: 1" = 50'
DATE: 01-26-06
Drawn By: L.K.

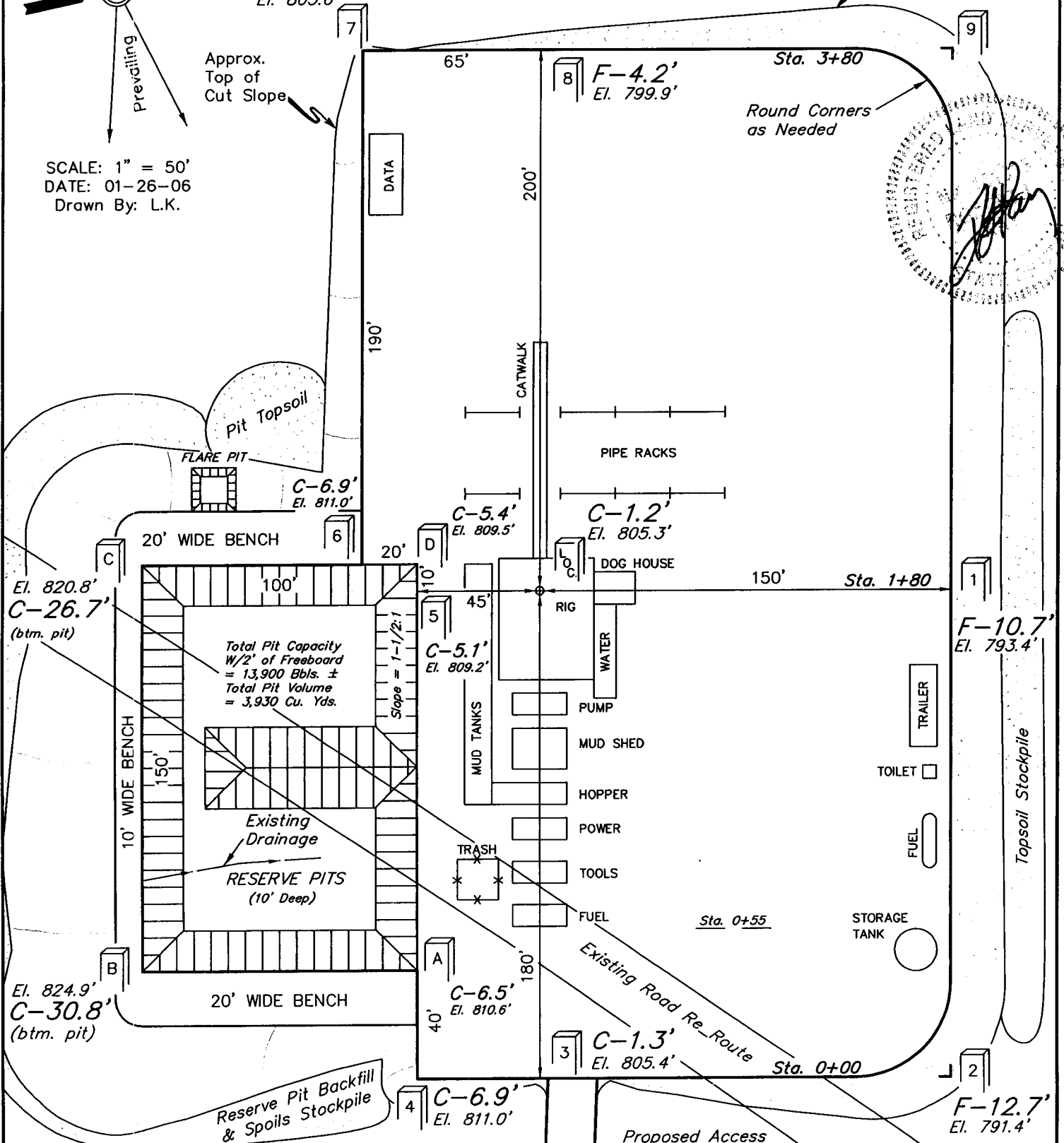
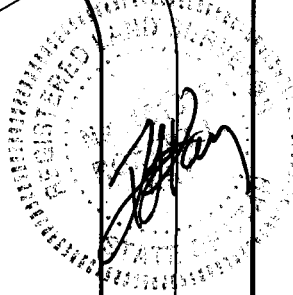
Approx.
Top of
Cut Slope

C-1.5'
El. 805.6'

F-4.2'
El. 799.9'

Sta. 3+80

Round Corners
as Needed



Elev. Ungraded Ground at Location Stake = 5805.3'
Elev. Graded Ground at Location Stake = 5804.1'

Proposed Access
Road

UINTAH ENGINEERING & LAND SURVEYING

85 So. 200 East * Vernal, Utah 84078 * (801) 789-1017

478' FNL 813' FEL

85 So. 200 East * Vernal, Utah 84078 * (801) 789-1017

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/26/2006

API NO. ASSIGNED: 43-013-33474

WELL NAME: WILKIN RIDGE FED 41-21-10-17

OPERATOR: GASCO PRODUCTION (N2575)

CONTACT: TABATHA PARKER

PHONE NUMBER: 303-857-9999

PROPOSED LOCATION:

NENE 21 100S 170E

SURFACE: 0478 FNL 0813 FEL

BOTTOM: 0478 FNL 0813 FEL

COUNTY: DUCHESNE

LATITUDE: 39.93535 LONGITUDE: -110.0043

UTM SURF EASTINGS: 585076 NORTHINGS: 4420847

FIELD NAME: UNDESIGNATED (2)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-75083

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: BLKHK

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. UT-1233)
☒ Potash (Y/N)
☒ Oil Shale 190-5 (B) or 190-3 or 190-13
☒ Water Permit
(No. 43-1721)
☒ RDCC Review (Y/N)
(Date:)
☒ Fee Surf Agreement (Y/N)
☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit: WILKIN RIDGE DEEP

☒ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells

___ R649-3-3. Exception

___ Drilling Unit

Board Cause No: _____

Eff Date: _____

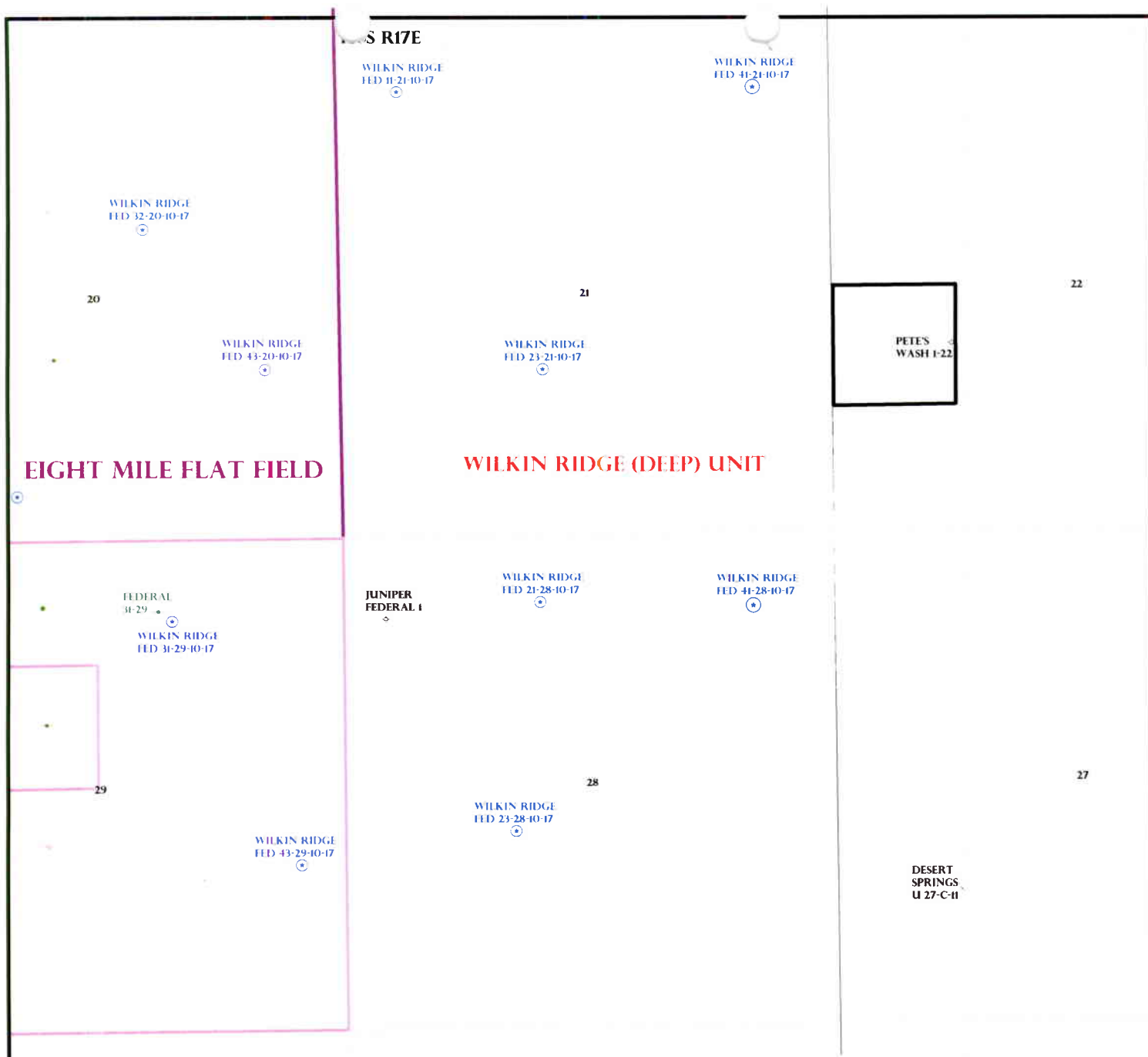
Siting: _____

___ R649-3-11. Directional Drill

COMMENTS: _____

STIPULATIONS: _____

1- Federal Approval
2- Spacing Stip



OPERATOR: GASCO PROD CO (N2575)

SEC: 21,28 T.10S R. 17E

FIELD: UNDESIGNATED (002)

COUNTY: DUCHESNE

SPACING: R649-3-2 / GENERAL SITING

Field Status

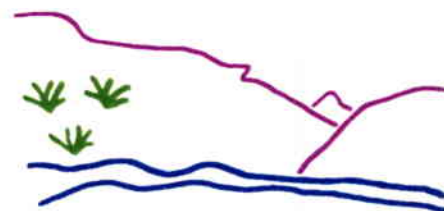
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status

- ✕ GAS INJECTION
- ✕ GAS STORAGE
- ✕ LOCATION ABANDONED
- ✕ NEW LOCATION
- ✕ PLUGGED & ABANDONED
- ✕ PRODUCING GAS
- ✕ PRODUCING OIL
- ✕ SHUT-IN GAS
- ✕ SHUT-IN OIL
- ✕ TEMP. ABANDONED
- ✕ TEST WELL
- ✕ WATER INJECTION
- ✕ WATER SUPPLY
- ✕ WATER DISPOSAL
- ✕ DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA MASON
DATE: 27-DECEMBER-2006

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

January 3, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2007 Plan of Development Wilkin Ridge Unit, Duchesne and Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2007 within the Wilkin Ridge Unit, Duchesne County, Utah.

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ Blackhawk)

43-013-33468	Wilkin Ridge State	23-16-10-17 Sec 16 T10S R17E 1948 FSL 1995 FWL
43-013-33473	Wilkin Ridge Fed	41-28-10-17 Sec 28 T10S R17E 0793 FNL 0858 FEL
43-013-33474	Wilkin Ridge Fed	41-21-10-17 Sec 21 T10S R17E 0478 0FNL 813 FEL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File – Wilkin Ridge Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:1-3-07



State of Utah

**Department of
Natural Resources**

MICHAEL R. STYLER
Executive Director

**Division of
Oil, Gas & Mining**

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

January 3, 2007

Gasco Production Company
8 Inverness Drive East, Suite 100
Englewood, CO 80112

Re: Wilkin Ridge Federal 41-21-10-17 Well, 478' FNL, 813' FEL, NE NE, Sec. 21,
T. 10 South, R. 17 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33474.

Sincerely,

A handwritten signature in black ink, appearing to read "Gil Hunt".

Gil Hunt
Associate Director

pab
Enclosures

cc: Duchesne County Assessor
Bureau of Land Management, Vernal District Office

Operator: Gasco Production Company
Well Name & Number Wilkin Ridge Federal 41-21-10-17
API Number: 43-013-33474
Lease: UTU-75083

Location: NE NE **Sec.** 21 **T.** 10 South **R.** 17 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

CONFIDENTIAL

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU 75083

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☐ OTHER _____

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
NA

7. UNIT or CA AGREEMENT NAME:
NA

2. NAME OF OPERATOR:
Gasco Production Company

8. WELL NAME and NUMBER:
Wilkin Ridge Federal 41-21-10-17

3. ADDRESS OF OPERATOR:
8 Inverness Drive E, Ste 100 CITY Englewood STATE CO ZIP 80112

PHONE NUMBER:
(303) 483-0044

9. API NUMBER:
4301333474

4. LOCATION OF WELL

FOOTAGES AT SURFACE: **478' FNL and 813' FEL**

10. FIELD AND POOL, OR WILDCAT:
Wilkin Ridge

COUNTY: **Duchesne**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NENE 21 10S 17E**

STATE: **UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: <u>Extend Permit</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Gasco Production Company would like to request a one year extension on this APD from the date it is due to expire (1/3/2008)

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 12-26-07
By: [Signature]

RECEIVED
DEC 26 2007
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Beverly Walker

TITLE Engineering Technician

SIGNATURE [Signature]

DATE 12/20/2007

(This space for State use only)



**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 4301333474
Well Name: Wilkin Ridge Federal 41-21-10-17
Location: NE NE of Section 21-T10S-R17E Duchesne Cnty, UT
Company Permit Issued to: Gasco Production Co
Date Original Permit Issued: 1/3/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

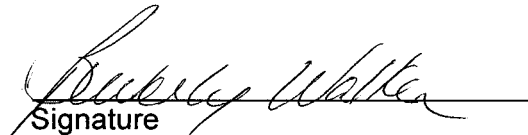
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐


Signature

12/20/2007

Date

Title: Engineering Technician

Representing: Gasco Production Company

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

CONFIDENTIAL

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER _____

2. NAME OF OPERATOR:
Gasco Production Company

3. ADDRESS OF OPERATOR:
8 Inverness Drive E, Ste 100 CITY Englewood STATE CO ZIP 80112

PHONE NUMBER:
(303) 483-0044

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 478' FNL & 813' FEL

COUNTY: Duchesne

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 21 10S 17E

STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU-75083

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
NA

7. UNIT or CA AGREEMENT NAME:
NA

8. WELL NAME and NUMBER:
Wilkin Ridge Federal 41-21-10-17

9. API NUMBER:
4301333474

10. FIELD AND POOL, OR WILDCAT:
Wilkin Ridge

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON	
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Extend Permit</u>	
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION		

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Gasco Production Company would like to request a one year extension on this APD from the date it is due to expire (12/26/2008).

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 12-24-08
By: [Signature]

NAME (PLEASE PRINT) Jessica Berg

TITLE Production Clerk

SIGNATURE

DATE 12/19/2008

(This space for State use only)

COPY SENT TO OPERATOR

Date: 12-30-2008

Initials: JS

(5/2000)

(See Instructions on Reverse Side)

RECEIVED

DEC 23 2008

DIV. OF OIL, GAS & MINING

SECRET

**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 4301333474
Well Name: Wilkin Ridge Federal 41-21-10-17
Location: NE NE of Section 21-T10S-R17E Duchesne Cnty, UT
Company Permit Issued to: Gasco Production Co
Date Original Permit Issued: 1/3/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

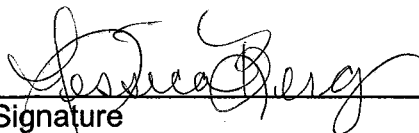
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐


Signature

12/19/2008

Date

Title: Production Clerk

Representing: Gasco Production Company

RECEIVED
DEC 23 2008
DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

AUG 14 2006

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-75083
b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Gasco Production Company		7. If Unit or CA Agreement, Name and No. Wilkin Ridge
3. Name of Agent Permitco Inc. - Agent		8. Lease Name and Well No. Wilkin Ridge Federal #41-21-10-17
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 478' FNL and 813' FEL At proposed prod. zone NE NE		9. API Well No. 43-013-33474
14. Distance in miles and direction from nearest town or post office* Approximately 22 miles southeast of Myton, UT.		10. Field and Pool, or Exploratory Wilkin Ridge
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 478'	16. No. of Acres in lease 1917.68	11. Sec., T., R., M., or Blk. and Survey or Area Section 21, T10S-R17E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. None	17. Spacing Unit dedicated to this well 40 Acres; NE NE	12. County or Parish Duchesne
19. Proposed Depth 13,025'	20. BLM/BIA Bond No. on file Bond No. UT-1233	13. State UT
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5805' GL	22. Approximate date work will start* ASAP	23. Estimated duration 35 Days

24. Attachments

CONFIDENTIAL-TIGHT HOLE

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, a SUPO shall be filed with the appropriate Forest Service Office. | 6. Such other site specific information and/or plans as may be required by the authorized office. |

25. Signature <i>Tabatha Parker</i>	Name (Printed/Typed) Tabatha Parker	Date: 8/11/2006
--	---	---------------------------

Title
Authorized Agent for Gasco Production Company

Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed) JEFF KENCERA	Date FEB 17 2009
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

UDOGM

NOTICE OF APPROVAL

RECEIVED

FEB 25 2009

DIV. OF OIL, GAS & MINING

06BMD 745A



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Gasco Production Company
Well No: Wilkin Ridge Federal 41-21-10-17
API No: 43-013-33474

Location: NENE, Sec. 21, T10S, R17E
Lease No: UTU-75083
Agreement: Wilkin Ridge Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	(435) 828-3546
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	(435) 828-4029
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	(435) 828-7381
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545
NRS/Enviro Scientist:	David Gordon	(435) 781-4424	
NRS/Enviro Scientist:	Christine Cimiluca	(435) 781-4475	
NRS/Enviro Scientist:	Lori Ford	(435) 781-4406	

Fax: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

SITE SPECIFIC COAs:

- Surface Conditions of Approval or monitoring are listed in the Surface Use Plan of the APDs.
- The operator will control noxious weeds on disturbance from this project by spraying or mechanical removal. On BLM administered land, it is required that a Pesticide Use Proposal be submitted, approved and a permit issued prior to the application of herbicides, pesticides or possibly hazardous chemicals.
- Depending on future requirements of the location and if it is determined a pump-jack be used upon completion then it is recommended that a hospital muffler be installed. This mitigation measure will minimize noise disturbance for wildlife species within the surrounding area.
- The operator shall construct low water crossings along the proposed access road in order to maintain existing drainages.
- Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee shall submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5, an Interim Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. At a minimum, this will include the reshaping of the pad to the original contour to the extent possible; the re-spreading of the top soil up to the rig anchor points; and, the area reseeded using appropriate reclamation methods. The AO will provide written approval or concurrence within 30 calendar days of receipt. The following seed mix shall be used:

Type		lbs./acre
Western Wheatgrass	<i>Agropyron smithii</i>	4
Needle and Threadgrass	<i>Stipa comata</i>	4
Hy-crest Crested wheatgrass	<i>Agropyron cristatum</i>	4
** Seed shall be drilled; but if broadcasted double the pounds per acre used and work the solids mechanically to cover the seed.		

- Following well plugging and abandonment, the location, access roads, pipelines, and other facilities shall be reclaimed. All disturbed surfaces shall be reshaped to approximate the original contour; the top soil re-spread over the surface; and, the surface re-vegetated. The following seed mix shall be used, unless BLM personnel determine that conditions have changed and another mix will be more suitable:

Type		lbs./acre
Shadscale	<i>Atriplex confertifolia</i>	3
Winterfat	<i>Eurotia lanata</i>	3
Galleta grass	<i>Hilaria jamesil</i>	3
Indian Rice Grass	<i>Oryzopsis hymenoides</i>	3
** Seed shall be drilled; but if broadcasted double the pounds per acre used and work the solids mechanically to cover the seed.		

***DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

SITE SPECIFIC DOWNHOLE COAs:

- Production casing cement shall be brought up and into the surface casing. The minimum cement top is 2500 ft, which is above the surface casing shoe.
- A cement Bond Log (CBL) shall be run from the production casing shoe to the surface casing shoe. A field copy of the CBL shall be submitted to the BLM Vernal Field Office.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-75083			
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
2. NAME OF OPERATOR: GASCO PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME: WILKIN RIDGE DEEP			
3. ADDRESS OF OPERATOR: 8 Inverness Dr. East, Suite 100 , Englewood, CO, 80112		8. WELL NAME and NUMBER: WILKIN RIDGE FED 41-21-10-17			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0478 FNL 0813 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 10.0S Range: 17.0E Meridian: S		9. API NUMBER: 43013334740000			
PHONE NUMBER: 303 483-0044 Ext		9. FIELD and POOL or WILDCAT: UNDESIGNATED			
COUNTY: DUCHESNE		STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/14/2010 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: _____ </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: _____
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: _____			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.					
<div style="text-align: right;"> <p style="color: red; margin: 0;">Approved by the Utah Division of Oil, Gas and Mining</p> <p style="color: red; margin: 0;">Date: <u>December 28, 2009</u></p> <p style="color: red; margin: 0;">By: <u></u></p> </div>					
NAME (PLEASE PRINT) Roger Knight	PHONE NUMBER 303 996-1803	TITLE EHS Supervisor			
SIGNATURE N/A		DATE 12/28/2009			

RECEIVED December 28, 2009



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013334740000

API: 43013334740000

Well Name: WILKIN RIDGE FED 41-21-10-17

Location: 0478 FNL 0813 FEL QTR NENE SEC 21 TWNP 100S RNG 170E MER S

Company Permit Issued to: GASCO PRODUCTION COMPANY

Date Original Permit Issued: 1/3/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the
Utah Division of
Oil, Gas and Mining**

Signature: Roger Knight

Date: 12/28/2009

Title: EHS Supervisor **Representing:** GASCO PRODUCTION COMPANY

Date: December 28, 2009

By: 

RECEIVED December 28, 2009

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-75083
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: GASCO PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME: WILKIN RIDGE DEEP
3. ADDRESS OF OPERATOR: 8 Inverness Dr. East, Suite 100, Englewood, CO, 80112		8. WELL NAME and NUMBER: WILKIN RIDGE FED 41-21-10-17
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0478 FNL 0813 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 10.0S Range: 17.0E Meridian: S		9. API NUMBER: 43013334740000
PHONE NUMBER: 303 483-0044 Ext		9. FIELD and POOL or WILDCAT: UNDESIGNATED
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/3/2012 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 01/05/2011

By:

NAME (PLEASE PRINT) Roger Knight	PHONE NUMBER 303 996-1803	TITLE EHS Supervisor
SIGNATURE N/A		DATE 1/3/2011



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013334740000

API: 43013334740000

Well Name: WILKIN RIDGE FED 41-21-10-17

Location: 0478 FNL 0813 FEL QTR NENE SEC 21 TWNP 100S RNG 170E MER S

Company Permit Issued to: GASCO PRODUCTION COMPANY

Date Original Permit Issued: 1/3/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the
Utah Division of
Oil, Gas and Mining**

Signature: Roger Knight

Date: 1/3/2011

Title: EHS Supervisor **Representing:** GASCO PRODUCTION COMPANY

Date: 01/05/2011

By:

RECEIVED January 03, 2011

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 09 2011

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

BLM

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU75083
2. Name of Operator GASCO PRODUCTION COMPANY		6. If Indian, Allottee or Tribe Name
Contact: JESSICA BERG E-Mail: jberg@gascoenergy.com		7. If Unit or CA/Agreement, Name and/or No. UTU81153X
3a. Address 8 INVERNESS DRIVE EAST, SUITE 100 ENGLEWOOD, CO 80112-5625	3b. Phone No. (include area code) Ph: 303-996-1805	8. Well Name and No. WILKIN RIDGE FEDERAL 41-21-10-17
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 21 T10S R17E NENE 478FNL 813FEL		9. API Well No. 43-013-33474-00-X1
		10. Field and Pool, or Exploratory RIVER BEND
		11. County or Parish, and State DUCHESNE COUNTY, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Change to Original PD
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Gasco would like to request a two year extension on this permit from the date it is due to expire 2/17/2011.

RECEIVED

APR 18 2011

DIV. OF OIL, GAS & MINING

CONDITIONS OF APPROVAL ATTACHED

VERNAL FIELD OFFICE
ENG. JD
GEOL. _____
E.S. _____
PET. _____
RECL. _____

14. I hereby certify that the foregoing is true and correct. Electronic Submission #102254 verified by the BLM Well Information System For GASCO PRODUCTION COMPANY, sent to the Vernal Committed to AFMSS for processing by ROBIN R. HANSEN on 02/09/2011 (11RRH1145SE)	
Name (Printed/Typed) JESSICA BERG	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 02/09/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>[Signature]</u>	Title Assistant Field Manager Lands & Mineral Resources	Date APR 11 2011
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office VERNAL FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UDOGM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

CONDITIONS OF APPROVAL

Gasco Production Company

Notice of Intent APD Extension

Lease: UTU-75083
Well: Wilkin Ridge Federal 41-21-10-17
Location: NENE Sec 21-T10S-R17E

An extension for the referenced APD is granted with the following conditions:

1. The extension and APD shall expire on 02/16/2013.
2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Carey Doyle of this office at (435) 781-3406.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-75083
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: GASCO PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME: WILKIN RIDGE DEEP
3. ADDRESS OF OPERATOR: 8 Inverness Dr. East, Suite 100 , Englewood, CO, 80112		8. WELL NAME and NUMBER: WILKIN RIDGE FED 41-21-10-17
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0478 FNL 0813 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 10.0S Range: 17.0E Meridian: S		9. API NUMBER: 43013334740000
PHONE NUMBER: 303 483-0044 Ext		9. FIELD and POOL or WILDCAT: UNDESIGNATED
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/3/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 01/04/2012

By:

NAME (PLEASE PRINT) Roger Knight	PHONE NUMBER 303 996-1803	TITLE EHS Supervisor
SIGNATURE N/A	DATE 1/3/2012	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013334740000

API: 43013334740000

Well Name: WILKIN RIDGE FED 41-21-10-17

Location: 0478 FNL 0813 FEL QTR NENE SEC 21 TWNP 100S RNG 170E MER S

Company Permit Issued to: GASCO PRODUCTION COMPANY

Date Original Permit Issued: 1/3/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Roger Knight

Date: 1/3/2012

Title: EHS Supervisor **Representing:** GASCO PRODUCTION COMPANY

RECEIVED Jan. 03, 2012

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-75083
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR:		7. UNIT or CA AGREEMENT NAME: WILKIN RIDGE DEEP
3. ADDRESS OF OPERATOR: , , , Ext		8. WELL NAME and NUMBER: WILKIN RIDGE FED 41-21-10-17
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0478 FNL 0813 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 10.0S Range: 17.0E Meridian: S		9. API NUMBER: 43013334740000
9. FIELD and POOL or WILDCAT: UNDESIGNATED		COUNTY: DUCHESNE
STATE: UTAH		
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/3/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p style="color: red; font-weight: bold;">Approved by the Utah Division of Oil, Gas and Mining</p> <p style="color: red; font-weight: bold;">Date: January 07, 2013</p> <p style="color: red; font-weight: bold;">By: </p>		
NAME (PLEASE PRINT) Roger Knight		PHONE NUMBER 303 996-1803
SIGNATURE N/A		TITLE EHS Supervisor
DATE 1/2/2013		



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013334740000

API: 43013334740000

Well Name: WILKIN RIDGE FED 41-21-10-17

Location: 0478 FNL 0813 FEL QTR NENE SEC 21 TWNP 100S RNG 170E MER S

Company Permit Issued to: GASCO PRODUCTION COMPANY

Date Original Permit Issued: 1/3/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Roger Knight

Date: 1/2/2013

Title: EHS Supervisor **Representing:** GASCO PRODUCTION COMPANY



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

440 West 200 South, Suite 500

Salt Lake City, UT 84101

<http://www.blm.gov/ut/st/en.html>

FEB 05 2013

RECEIVED
FEB 07 2013
DIV. OF OIL, GAS & MINING



IN REPLY REFER TO:

3180 (UTU81153X)

UT-922000

Ms. Frankie L. Martinez

Gasco Energy, Inc.

7979 East Tufts Avenue, Suite 1150

Denver, Colorado 80237

Re: Automatic Contraction
Wilkin Ridge (Deep) Unit
Uintah and Duchesne Counties, Utah

Dear Ms. Martinez:

Your letter of January 24, 2013, describes the lands automatically eliminated effective September 17, 2012, from the Wilkin Ridge (Deep) Unit Area, Uintah and Duchesne Counties, Utah, pursuant to Section 2(e) of the unit agreement and requests our concurrence. The lands you have described contain 44,447.23 acres, more or less, and constitute all legal subdivisions, no parts of which are included in the Wilkin Ridge (Deep) Participating Areas "A" and "B". As a result of the automatic contraction, the unit is reduced to 480.00 acres.

The following Federal Leases are entirely eliminated from the unit area:

UTU56947	UTU75084	UTU77063	UTU88144
UTU68387	UTU75085	UTU78214	UTU88204
UTU68620*	UTU75086	UTU78215	
UTU74400	UTU75087	UTU78216	
UTU74401	UTU75088	UTU80950	
UTU74402	UTU75235	UTU81003*	
UTU74403	UTU75236	UTU81706*	
UTU74407	UTU75514	UTU82704	
UTU74408	UTU75515	UTU82705	
UTU74836	UTU75672	UTU84262	
UTU74968	UTU76031	UTU84263	
UTU74971	UTU76032	UTU84264	
UTU75079	UTU76256	UTU84265	
UTU75080	UTU76258	UTU88068	
UTU75081	UTU76716	UTU88069	
UTU75082	UTU76717	UTU88072	

Tract No. 43 UNLEASED*

*Indicates non-committed lease

The following Federal Leases are partially eliminated from the unit area:

UTU65632

UTU75083

You have complied with the requirements of Section 2(e), provided you promptly notify all interested parties. If you have any questions, please contact Judy Nordstrom at (801) 539-4108.

Sincerely,

A handwritten signature in black ink, appearing to read "Roger L. Bankert".

Roger L. Bankert
Chief, Branch of Minerals

Enclosure

cc: UDOGM
SITLA
ONRR w/Exhibit "B" (Attn: Nancy McCarthy)
(UTG01) BLM FOM - Vernal w/enclosure



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Green River District
Vernal Field Office
170 South 500 East
Vernal, UT 84078

<http://www.blm.gov/ut/st/en/fo/vernal.html>



September 10, 2013

IN REPLY REFER TO:
3160 (UTG011)

Tom Rogers
Gasco Production Company
7979 Tufts Ave., Suite 1150
Denver, CO 80237

43 013 33474

Re: Notice of Expiration
Well No. Wilkin Ridge 41-21-10-17
NENE, Sec. 21, T10S, R17E
Duchesne County, Utah
Lease No. UTU-75085

Dear Mr. Rogers:

The Application for Permit to Drill (APD) for the above-referenced well was approved on February 17, 2009. A two (2) year extension of the original APD was requested. The request was reviewed and the extension approved until February 16, 2013. According to our records, no known activity has transpired at the approved location. In view of the foregoing, this office is notifying you that the approval of the referenced application has expired. If you intend to drill at this location in the future, a new Application for Permit to Drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

If you have any questions regarding this matter, please contact Robin R. Hansen at (435) 781-3428.

Sincerely,

/s/ Jerry Kenczka

Jerry Kenczka
Assistant Field Manager
Lands & Mineral Resources

cc: UDOGM

bcc: Well File
I&E Asst.

RECEIVED

SEP 20 2013

DIV. OF OIL, GAS & MINING